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# AGGELER & MUSSER SEED CO.

LOS ANGELES

1930



*Thirty Seventh  
Annual Catalog*



A&M RIVERSIDE SWEET SPANISH ONION    &    A&M WONDER BELL PEPPER

Two notable A&M introductions now in great demand by Market Gardeners and Shippers

## General Directions for Ordering

**NAME and ADDRESS**—Be sure that your name and address are written plainly. Write in the proper place on the order blank Post Office, County, Rural Delivery, Box Number and nearest Express Office.

**ORDER EARLY**—We endeavor to ship all orders within 24 hours after we receive them, but during the rush season from February to April delays are sometimes unavoidable. If patrons can anticipate their wants and order early it will be to our mutual benefit.

**REMITTANCES**—Should be made by post office money order, express money order, or bank draft, for a sufficient amount to cover the entire order and postage, if any. Do not send currency. Should it be lost there is no recourse. Stamps of two cent denomination will be accepted for small amounts.

**PARCEL POST**—Parcel Post rates apply on weights up to 70 pounds in the first, second and third zones, and in all zones of 300 miles or more the limit weight is fifty pounds. Parcel post rates are usually cheaper than express, with the added advantage of having the parcel delivered to your door. We pay postage on all seeds in this Catalogue listed in packets, half ounce, ounce, quarter pound, pound and two pound quantity. On all seed and bulb collections we pay the postage. On small orders of bulbs we pay the postage, but not on the larger quantity.

**POSTAGE NOT PAID**—On orders of larger quantity at "not prepaid" prices stated in the Catalogue you pay the postage, express or freight. The same applies to quantity lots of bulbs at "not prepaid" prices.

On larger orders of seeds, say in 10 or 20 pound lots, at "not prepaid" prices, it will be necessary for you to send postage extra if you want it by parcel post, but if it is to be sent by freight or express you can pay the transportation charges at your freight or express office when you receive the goods. Remember, tho, that if you want your order of "not prepaid" seeds or bulbs sent by parcel post the postage must be paid in advance and you must send us the amount of postage in addition to the cost of the seed or bulbs. If you do not know the zone you are in from Los Angeles your postmaster or R. F. D. carrier can tell you.

**TO FIGURE POSTAGE**—First figure the total weight in pounds on "not prepaid" items you are ordering, then find zone you are in from Los Angeles. If you have ten pounds of "not prepaid" items and you are in the first or second zone the postage would be 16c, the third zone 26c, the 4th zone 44c, etc., straight across the chart giving the parcel post zone rates. (See chart of parcel post zone rates.) Seventy pounds is the weight limit in the first, second and third zones—fifty pounds the weight limit in all other zones. If larger quantities are wanted it will be necessary to put the order up in two or more parcels and the postage must be figured on parcel individually.

**FOREIGN PARCEL POST**—We pay postage on all Flower Seeds, Vegetable Seeds and Tree Seeds up to 10 lbs. For all other seeds and for other articles listed in this catalogue add 14c per lb. for postage.

**MEXICO SHIPMENTS**—All orders sent by express or freight to Mexico have an extra charge, as follows: Orders to the value of \$5.00 to \$50.00 require \$1.00 extra, and orders above \$50.00 require \$2.00 extra for consular fees. All orders sent by parcel post are free of these charges.

**ERRORS**—While we exercise the utmost care in filling orders we find that occasionally errors occur, in which event we ask you to please notify us promptly and we suggest that you keep copy of your orders for comparison.

**PRICES**—In the event of unforeseen circumstances prices are subject to change without notice.

**NON-WARRANTY**: Note—There are so many contingencies to be encountered in growing plants from seed and in setting out plants that are dependent on the weather and other conditions over which we have no control, that success in planting is not altogether dependent on the seed or plant. We will send out only seed which we believe will grow and produce the kind of plant and variety represented, but:

Aggeler & Musser Seed Co. give no warranty, expressed or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, plants or trees they send out, and they will not be responsible in any way for the crop.

### PARCEL POST ZONES FROM LOS ANGELES

Arizona, Utah, Nevada—mostly in the 4th zone.

Washington, Oregon, Idaho, Montana, Wyoming and Colorado mostly in the 5th zone.

New Mexico and Texas in 5th and 6th zones.

Oklahoma, Kansas and Nebraska mostly in 6th zone.

Florida and South Eastern States in 8th zone.

We send A & M California grown seeds all over the world. They produce a bit of sunshine wherever they grow.

### Parcel Post Zone Rates

Wt. in lbs.	Zone 1 & 2	Zone 3rd	Zone 4th	Zone 5th	Zone 6th	Zone 7th	Zone 8th
1	\$0.07	\$0.08	\$0.08	\$0.09	\$0.10	\$0.12	\$0.13
2	.08	.10	.12	.15	.18	.22	.25
3	.09	.12	.16	.21	.26	.32	.37
4	.10	.14	.20	.27	.34	.42	.49
5	.11	.16	.24	.33	.42	.52	.61
6	.12	.18	.28	.39	.50	.62	.73
7	.13	.20	.32	.45	.58	.72	.85
8	.14	.22	.36	.51	.66	.82	.97
9	.15	.24	.40	.57	.74	.92	1.09
10	.16	.26	.44	.63	.82	1.02	1.21
11	.17	.28	.48	.69	.90	1.12	1.33
12	.18	.30	.52	.76	.98	1.22	1.45
13	.19	.32	.56	.81	1.06	1.32	1.57
14	.20	.34	.60	.87	1.14	1.42	1.69
15	.21	.36	.64	.93	1.22	1.52	1.81
16	.22	.38	.68	.99	1.30	1.62	1.93
17	.23	.40	.72	1.05	1.38	1.72	2.05
18	.24	.42	.76	1.11	1.46	1.82	2.17
19	.25	.44	.80	1.17	1.54	1.92	2.29
20	.26	.46	.84	1.23	1.62	2.02	2.41
21	.27	.48	.88	1.29	1.70	2.12	2.53
22	.28	.50	.92	1.35	1.78	2.22	2.65
23	.29	.52	.96	1.41	1.86	2.32	2.77
24	.30	.54	1.00	1.47	1.94	2.42	2.89
25	.31	.56	1.04	1.53	2.02	2.52	3.01
26	.32	.58	1.08	1.59	2.10	2.62	3.13
27	.33	.60	1.12	1.65	2.18	2.72	3.25
28	.34	.62	1.16	1.71	2.26	2.82	3.37
29	.35	.64	1.20	1.77	2.34	2.92	3.49
30	.36	.66	1.24	1.83	2.42	3.02	3.61
31	.37	.68	1.28	1.89	2.50	3.12	3.73
32	.38	.70	1.32	1.95	2.58	3.22	3.85
33	.39	.72	1.36	2.01	2.66	3.32	3.97
34	.40	.74	1.40	2.07	2.74	3.42	4.09
35	.41	.76	1.44	2.13	2.82	3.52	4.21
36	.42	.78	1.48	2.19	2.90	3.62	4.33
37	.43	.80	1.52	2.25	2.98	3.72	4.45
38	.44	.82	1.56	2.31	3.06	3.82	4.57
39	.45	.84	1.60	2.37	3.14	3.92	4.69
40	.46	.86	1.64	2.43	3.22	4.02	4.81
41	.47	.88	1.68	2.49	3.30	4.12	4.93
42	.48	.90	1.72	2.55	3.38	4.22	5.05
43	.49	.92	1.76	2.61	3.46	4.32	5.17
44	.50	.94	1.80	2.67	3.54	4.42	5.29
45	.51	.96	1.84	2.73	3.62	4.52	5.41
50	.56	1.06	2.04	3.03	4.02	5.02	6.01
55	.61	1.16					
60	.66	1.26					
65	.71	1.36					
70	.76	1.46					



**LOS ANGELES, CALIF.**

767 Central Ave., Los Angeles  
200 W. Main St., Santa Maria, Calif.  
32 W. Gabilan St., Salinas, Calif.

**Amount Enclosed**

**Do Not Write In  
This Space.**

.....  
(Mr., Mrs. or Miss; write name plainly)

Money Order.....

Money Order.....

Cash .....

Stamps .....

Total .....

FORWARD GOODS BY—

### Parcel Post

Express

**Freight**

Indicate shipping preference with X in square.

Name of Express Office or Freight Station .....

**NOTICE**—Remittance by Postal Money Order is a guarantee against loss. We prefer them for our mutual protection. Use them if convenient.

NOTICE—We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, plants or trees we send out and we will not be in any way responsible for the crop. Aggeler & Musser Seed Co.

[illegible]

(OVER)

## EXTRA ORDER SHEETS AND RETURN ENVELOPES FURNISHED ON REQUEST

Lbs. Oz. Pkt.

NAME OF ARTICLE WANTED

Brought forward

NOTICE: Please write below the names of any of your neighbors who would be interested in our catalog.

# THIRTY-SEVENTH ANNUAL CATALOGUE

## Aggeler & Musser Seed Company

General Offices, Warehouses and Mail Order Dept.

1934 E. 15th St.

LOS ANGELES, CALIF.

Stores: 750 S. Spring St., Los Angeles  
131-135 N. Sixth St., Brawley, Calif.  
838 W. 165th St., Gardena, Calif.

767 Central Ave., Los Angeles  
200 W. Main St., Santa Maria, Calif.  
32 W. Gabilan St., Salinas, Calif.

The A & M CATALOG comes to you as a herald of the preparations we have made for you, our customers, for the coming year. ▲ ▲

In it you will find a listing of the choicest seeds with a heritage of thirty-seven years of intensive study and breeding. ▲ ▲ ▲ ▲

With painstaking attention to minutest detail and with a thorough knowledge of pedigree, which is so essential a requirement in successful seed production, our A & M RELIABLE SEEDS have been evolved. ▲

To our past years' valued customers, also to those new ones whom we hope to add to our list, we offer our resources, as well as the assurance of consideration and courtesy with which we have aimed to characterize A & M SERVICE. ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲

Your patronage is earnestly solicited. ▲ ▲ ▲ ▲ ▲

**A&M**  
*reliable*  
**SEEDS**


**A&M**  
*reliable*  
**SEEDS**

## Artichoke

**Culture** Sow any time except during hottest weather, when all seed beds require special care. Soil should be a free, moist loam and seeds should be planted an inch deep. Plant out when six inches high in rows four feet apart each way. Save offsets from best plants for new supply, as artichokes never come true from seed, some will prove inferior. When planting seedlings, reject those with spinniest leaves.

**Green Globe** (Pkt. 10c) (oz. 90c) (¼ lb. \$3.00) (lb. \$9.00) postpaid.  
**Artichoke Plants.** Half Moon Bay offshoots 25c each, 6 for \$1.35, doz. \$2.50. Postage extra.

## A & M Asparagus

**Culture** Drill the seed thinly in rows fifteen inches apart during March or April. Thin out to two inches apart for strong plants.  
 Exercise great care in preparing a field because it will last many years.

Transplant during February setting the roots one foot apart, in furrows four feet apart. Carefully spread out to avoid matting. The furrows should be ten or twelve inches deep and run North and South to get the sun on both sides of the rows. Cover the roots about three inches and as the plant grows throw the soil toward the plant. Each year when the berries are red, cut the plants close to the ground and burn, then dust the entire field with Anchor Brand sulphur, to destroy any germs of mildew, red spider or rust that may be there. Keep a mulch over the row with a harrow, but cultivate more deeply between the rows. Use stable manure liberally and hill up a little higher each year. Irrigate freely during the growing period. Three pounds of seed is sufficient to plant an acre.

**ROOTS:** Plant one year old roots and do not cut them back. When planting see that the roots are well spread out so that the soil will touch every part. If this is not done the plant cannot thrive.

**Mary Washington** This is the latest introduction of the most resistant varieties and the best with the advantage over all other varieties of being earlier, which means so much to the grower. (Per pkt. 10c) (oz. 35c) (¼ lb. \$1.25) (lb. \$3.50) postpaid.

### Mary Washington Roots

We grow our asparagus roots in good, clean land and they are given the very best attention in the way of cultivation. If you are planting an acreage of Asparagus tell us how many roots you expect to use and let us quote you prices on the larger quantity. Roots are usually ready for shipment about January 15th. (60c per dozen) (100, \$3.00) (1,000, \$20.00) postpaid.

**Argenteuil** An excellent variety for the canner and early shipper. This variety is now more extensively grown by large planters and shippers because it is more prolific and stands shipping better. Also its purple tinge is attractive, and its excellent flavor puts it on an equal with the Palmetto for table use.  
 (Pkt. 10c), (oz. 20c), (¼ lb. 50c) (lb. \$1.50 postpaid).

**Palmetto** A popular variety for the home garden or for shipping. The sprouts are green and of delicious flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50 postpaid).  
 Roots (per doz. 50c) (100, \$3.00) (1,000 \$15.00) postpaid.

### Asparagus Knife

Fish-tail Shape

Also an excellent weeder. Price 50c each, 55c postpaid.

### Asparagus Moss

We always have on hand a large supply of moss for asparagus shippers. Price on application.

## BROCCOLI

**A & M St. Valentine** The culture of Broccoli is the same as for cauliflower, which it so much resembles. For years we have been supplying commercial growers throughout California and Pacific Coast States, with a special strain of seed. This seed produces the very finest Broccoli and it will easily pass for cauliflower in any market. It matures from four to six weeks later than cauliflower, has a beautiful dark green foliage, and is of spreading habit. Our strain has been developed to suit market conditions. Seed should be sown from July to end of September. (Pkt. 15c) (oz. \$1.50) (¼ lb. \$5.00) (1 lb. \$20.00) postpaid.

**Italian Sprouting Broccoli** Recently introduced from Italy, this variety is now in demand on the market. Sow in seed bed and transplant the same as for Cauliflower. For best results plant between August and February as the variety prefers cool weather. The plant forms a green cluster of buds which should be cut before opening into yellow blossoms. After the head is cut, several sprouts develop forming smaller heads of equal value to the first. The vegetable is cooked and served in the same manner as Asparagus. (Pkt. 15c) (oz. \$1.50) (¼ lb. \$5.00) (1 lb. \$15.00) postpaid.

## BRUSSELS SPROUTS

**A & M Medium Dwarf** The culture for Brussels Sprouts is the same as for cabbage. It is a very highly esteemed vegetable and our strain of seed produces plants of dwarf, robust habit, and bearing in profusion the small compact heads. (Pkt. 10c) (oz. 30c) (¼ lb. 90c) (1 lb. \$2.75) postpaid.



Mary Washington Asparagus



# A & M Beans

Write for Quantity Prices

Market gardeners who are beginners and not familiar with gardening in the Southwest would do well to consult us either in person or by mail before buying, as to variety and time of planting. Special attention should be given to the instructions concerning the time of planting, which is an important factor in Southern California, as each month requires a different variety according to the market for which they are grown.

**Culture** During the early spring give sandy soil preference, but heavy soil in summer. When the ground is properly moistened and pulverized, plant bush beans one or two seeds every four inches, in rows twenty to twenty-four inches apart. If the soil is heavy, one-half inch is deep enough. Plant deeper in sandy soil. During the cool spring months plant shallow; during the hot summer months plant down to moist earth. Do not plant in soil that is too wet, nor irrigate immediately after planting, else the seed will rot. During the winter months do all irrigating in the morning, because the water from the pipe is warm and will help growth. When applied in the evening the water chills the plants, cools the soil, and retards the growth and causes mildew. During hot summer days irrigate in the later afternoon. Never sprinkle beans.

To prevent mildew dust frequently with Anchor Brand sulphur while the plants are young. Mildew may be prevented but is difficult to cure. Sulphur will not cure, but will arrest and prevent mildew.

## GREEN POD BUSH BEANS

**A & M Stringless Green Pod** One of the best varieties for the first early spring planting. It is very prolific and tender, a great favorite with market gardeners, for a quick maturing crop. Plant from April 1st until Aug. 1st. (Pkt. 10c) (½ lb. 25c) (lb. 45c) (10 lbs. \$4.00) prepaid.

**Full Measure** A splendid early bean which has gained much prominence. The pods are longer than Stringless Greenpod and are entirely stringless. It is sometimes called the Dwarf Kentucky Wonder on account of the similarity of pods. Plant from April to September. (Pkt. 10c) (½ lb. 25c) (1 lb. 45c) (10 lbs. \$4.00) postpaid.

**Early Refugee or 1000 to 1** An all round favorite for the summer months. Round pod, medium size, tender, desirable for table and cannery. It is a favorite with the market gardener because it is a good shipper, a good sealer, and very prolific. Plant from April to August. (Pkt. 10c) (½ lb. 25c) (lb. 45c) (10 lbs. \$4.00) prepaid.



Full Measure

**Canadian Wonder** Flat pod of good flavor, not stringless, but otherwise tender. Very hardy. Desired above all others by gardeners growing on the foothills for winter shipping, because of its luxuriant growth and continuous bearing of long, straight pods. Plant in September, October, November, December and January, according to locality. (Per pkt. 10c) (½ lb. 25c) (lb. 45c) (10 lbs. \$4.00) prepaid.

**Dwarf Horticultural** Desirable for green, shell and dried beans. Stringless and of excellent flavor. It is of Italian origin and is very popular with the Italian population. (Pkt. 10c) (½ lb. 25c) (lb. 45c) (10 lbs. \$4.00) prepaid.

**Six Weeks** A strong, rapid grower, which matures quickly. Flat pod. Only desirable for forcing. Plant in February and March, also early in September and October. (Pkt. 10c) (½ lb. 25c) (lb. 45c) (10 lbs. \$4.00) prepaid.

**French Mohawk** Long oval pod, very tender and prolific. Matures in six weeks. Desirable for a profitable short crop, as only two months is required from seed time to the end of the crop. Plant every month from March to October. (Per pkt. 10c) (½ lb. 25c) (lb. 45c) (10 lbs. \$4.00) prepaid.

## YELLOW POD BUSH BEANS

**A & M Improved Butter Wax** The demand for wax beans is increasing on the market and this variety has become a favorite because of the very attractive appearance of the pods. They are long, straight, of uniform size, very prolific and quite stringless. The blossoms set well throughout the summer and are not affected by heat. This bean is resistant to rust and mildew and is highly recommended. (Pkt. 10c) (½ lb. 25c) (1 lb. 45c) (10 lbs. \$4.00) postpaid.

**A & M Golden Wax** Long, flat pod, rich golden yellow, stringless. Plant early in April and until August. (Pkt. 10c) (½ lb. 25c) (lb. 45c) (10 lbs. \$4.00) postpaid.

**Ventura Wonder Wax or Davis Kidney Wax** This is the best Bean for the interior, Imperial Valley, Arizona and New Mexico, because the blossoms will not fall even at a high temperature. It is an excellent dry bean. Good bearer. Pods are long, rustless and hardy and very tender when young. (Pkt. 10c) (½ lb. 25c) (lb. 45c) (10 lbs. \$4.00) prepaid.

**Prolific Black Wax** Pod round, straight, five to six inches long. Decidedly the most desirable for mid-summer gardening. Plant from April to August. (Pkt. 10c) (½ lb. 25c) (lb. 45c) (10 lbs. \$4.00) prepaid.



A & M Improved Butter Wax



## Pole Beans

**Kentucky Wonder** The Kentucky Wonder was for many years the most popular bean with market gardeners as well as for the home gardeners. Its long round stringless pods are very prolific and tender. Its only drawback was the fact that it is much more susceptible to mildew than other varieties. For April and May planting it cannot be excelled. It has brown seed of little value as dry beans. (Pkt. 10c) (½ lb. 20c) (lb. 35c.) (10 lbs. \$3.00) prepaid.

### White Seeded Kentucky Wonder

In the South where earliness and lateness mean so much to the market gardener, the White Seeded Kentucky Wonder is far ahead of other varieties. It is enormously prolific and its pods that withstand shipping to almost any part of the United States. It matures ten days earlier than the Brown Seeded Kentucky Wonder. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

### A & M Rust Resistant Kentucky Wonder

An improved and selected strain. Realizing the importance of having a strain of Kentucky Wonder Beans that is more resistant to rust we have been selecting and improving along this line until we now have what we consider one that is more immune to attack by rust than any other, and it is as hardy as Canadian Wonder.

Along the coast and where there is considerable moisture in the air the A & M Rust Resistant Kentucky Wonder will thrive and yield well even under adverse weather conditions.

We have bred up both a brown and white seed stock of this. Brown Seed (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.25) prepaid. White Seed (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.25) prepaid.

**Kentucky Wonder Wax** The Pride of the Garden. garden bean soon reached nationwide proportions, and today is offered by nearly every seedsman in the United States. It commences to bear when scarcely higher than the average bush variety, and keeps on producing until killed by a frost. It is a rampant grower, one plant filling a pole with a mass of vines densely loaded with luscious golden beans. They are firm, entirely stringless, and when cooked, deliciously rich and buttery. The seed is brown, closely resembling that of the Kentucky Wonder. Plant from April to August. (Pkt. 10c) (½ lb. 25c) (lb. 45c) (10 lbs. \$4.00) prepaid.

**Horticultural Pole** Also referred to as Romane, Cranberry, Italian and Cornfield. Its large succulent tender pods make it a favorite bean for the table. It is one of the most desirable green shelled beans for succotash and excellent as a dry bean. It is also first rate when parboiled and pickled in a mild solution of vinegar and water. (Pkt. 10c) (½ lb. 20c) (lb. 35c.) (10 lbs. \$3.00) prepaid.

**Celestial or Yard Long** A good table bean as well as a grower. Should have ample arbor to climb upon.

It should be grown more extensively in the home garden. It is of Chinese Origin and one of the best vegetables emanating from that source. It is also absolutely rust-proof. (Pkt. 10c) (1 oz. 20c) (1 lb. \$1.50) postpaid.

**The Scarlet Runner** An old-time favorite that heretofore has been planted chiefly for ornamental purposes. But few people know that the Scarlet Runner may be planted May 1st and in six weeks attain a height of eight feet, and rapidly cover an arbor with vines twenty feet long. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

**Red Kidney** Is grown largely for canning. Plant 4 to 50 lbs. to acre.

**Mexican Red** There is a ready market for it at our wholesale grocers. Plant 30 to 40 lbs. to acre.

**Garvanza—(Chick Pea)** This is very popular farther south. Plant 40 to 50 lbs. to acre.

## Bush Lima Beans

Lima beans planted in cold soil will rot. The last of April and the month of May is as early as they should be planted.

### Fordhook Bush Lima

In order to get the best results plant one foot apart in rows 3½ feet apart. It is an improvement over the well known bush Lima because it is more prolific. It is a strong grower, more resistant to blight, and is more profitable to grow for the market because the pods remain green. This is of great advantage to the peddler, retailer and shipper. It has received universal praise. We recommend it to our customers for both home and market gardens—for the home garden because of its excellent flavor and productiveness; for the market gardener because it is demanded by the shipper and consumer. (Pkt. 10c) (½ lb. 25c) (lb. 45c) (10 lbs. \$4.00) prepaid.

### Burpee's Improved Bush

This bean differs from the old bush variety in being ten days earlier. Will yield one-fourth more tonnage per acre. The pods contain four to five beans that are larger and thicker than the old bush Lima. Where the Improved Bush Lima is known the variety is no longer in demand. (Pkt. 10c) (½ lb. 25c) (lb. 45c) (10 lbs. \$4.00) prepaid.

### Henderson's Bush

Also called Baby Lima. Small white Lima Bean, of excellent flavor and enormously prolific. It is grown so extensively here that it ranks commercially with common limas and other commercial varieties. It is used largely for canning. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

**Monstrous Lima** Plant 6 feet by 6 feet, leaving one stalk in each hill. If convenient, plant in a sheltered place about April 1st. You will then be gathering beans during September and possibly until January. After a while new growth will appear, then prune as you would a grape vine, protect with straw or a similar material, and by May 1st you have a new crop as profitable as peppers or string beans or any other early vegetable. During July the vines will show age and become matted; prune as before and in October you will begin gathering your third crop. Continue pruning twice a year; irrigate and fertilize. (Pkt. 10c) (½ lb. 35c) (lb. 60c) prepaid) (10 lbs. \$5.50) prepaid.

## Pole Lima

**King of the Garden** Very prolific; desirable both for the home garden and for the market gardener. Not quite as early as the bush varieties, but bear over a longer period. Plant from April 1st to September 1st. (Per pkt. 10c) (½ lb. 25c) (lb. 45c) (10 lbs. \$4.00) prepaid.

## Commercial Beans

Each variety (per. lb. 25c) (10 lbs. \$2.00). Write for quantity price.

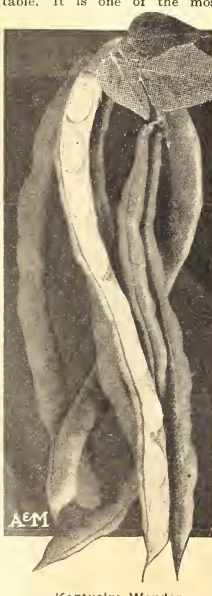
**Pink** An old-time favorite. Plant 30 to 45 lbs. to the acre.

### Lady Washington and Navy

Both are small white beans, but the Navy is slightly smaller. Plant 25 to 30 lbs. to acre.

## McQUEEN'S CULTURE

Inoculate beans at planting time with McQueen's Inoculating Culture for increasing the yield and improving the land. (Garden size 15c per pkt.) (For 50 lbs. of seed \$50c per can) (For 120 lbs. of seed \$1.00 per can) (For 300 lbs. of seed \$1.75) f. o. b. See page 15.



Kentucky Wonder

## A & M Table Beets



Early Wonder

### Early Flat Egyptian

The Egyptian is a small, dark red, flat, smooth variety. It is sweetest and best for the table and is the market gardener's winter favorite on account of its beautiful appearance, earliness, and excellent flavor. (Pkt. 10c) (oz. 15c) (¼ lb. 35c) (lb. \$1.00) postpaid.

**Culture** Beets may be planted all the year round where the temperature does not linger below 30 degrees. Sow the seed one inch deep in well prepared, moist soil in rows eight or ten inches apart, or on ridges same as lettuce. Drill 10 pounds of seed per acre. Thin out to one plant every three inches, and transplant the discarded plants in any convenient spot about the garden. Irrigate about every two weeks, unless the nature of the soil is such that more frequent irrigation is found to be necessary. Mulch the soil after each irrigation. Beets are ready for use in ten weeks and continue in prime condition for another ten weeks. For the home garden sow one ounce of seed for 100 feet of row.

**Early Wonder** In size and shape similar to Early Crosby. Because of its very bright color it is becoming very popular on the local market and we think it is destined to become one of the best market varieties. It is extremely early, of good uniform size, a bright red in color and with a very small top, which makes it most suitable for bunching. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (1 lb. \$1.50) postpaid.

**Early Blood Turnip** Of large flesh very tender and retains its bright red color when cooked. On account of its tall leaves it is a favorite summer time beet with market gardeners. (Pkt. 10c) (oz. 15c) (¼ lb. 35c) (lb. \$1.00) postpaid.

**Early Crosby** One of the favorites among California gardeners who are producing beets for bunching. They are of uniform shape and size, with good color and medium top. (Pkt. 10c) (oz. 15c) (¼ lb. 40c) (1 lb. \$1.25) postpaid.

**Detroit Dark Red** This is an ideal beet for all purposes. It cannot be excelled for the table; free from all fibre and very sweet. It is the best of all for pickling or canning. Even the tops are good when pickled. (Pkt. 10c) (oz. 15c) (¼ lb. 40c) (lb. \$1.25) postpaid.

## A & M Stock Beets

**Culture** May be sown all the year round in drills sixteen inches apart. Thin out to stand six inches apart in rows. Keep well cultivated; 8 pounds of mangel, or 10 pounds of sugar beet seed will plant an acre and yield 20 tons or more of beets. For the breeder of hogs, small stock and poultry, we recommend the planting of beets. The Stock Beet is one of the finest fat and milk-producing crops we have today, and when fed in conjunction with grain they are worth nearly as much, pound for pound, as the grain itself.

**Long Red Mangel** The largest Stock Beet. Yields 40 to 50 tons to the acre. Will grow in land containing more alkali than any other beet. All stock except horses eat it readily. (Pkt. 10c) (lb. 60c) (10 lbs. \$5.50) postpaid.

**Golden Tankard Mangel** Contains more sugar and less water than any other Mangel. Rich in milk-producing qualities, hence a favorite with dairymen. Horses will eat it. (Pkt. 10c) (lb. 60c) (10 lbs. \$5.50) postpaid.

**Klein Wanzleben** (Sugar Beet.) This variety is without question the best in cultivation. Not the largest in size, but the richest in saccharine. It will fatten hogs as quickly as grain. (Pkt. 10c) (lb. 60c) (10 lbs. \$5.50) postpaid.

## A & M SWISS CHARD

**Culture** Same as for beets; transplant 8 inches apart in rows 18 inches apart.

Grown for its leaves only; one of the best early greens. Cook the leaves as you do spinach and the stems in cream as asparagus. Leaves grow to enormous size, 20 inches to 2 feet in length. The plant is almost perpetual if kept trimmed, but it is better to have a new crop every year. The tender leaves make it a desirable plant for poultry greens; much more desirable than alfalfa, because it can be grown with less care and in any convenient place about the premises. Try it for your hens.

**Lucullus** Used extensively for poultry and is one of the most popular varieties for this purpose because of the tendency to grow to a good height and to produce longer leaves and more forage. (Pkt. 10c) (oz. 15c) (¼ lb. 35c) (1 lb. \$1.00) postpaid.

**White Swiss Chard** Best suitable for table use, but is also used extensively for poultry feed. It has a large white rib, a rather smooth leaf, making it easily cleaned for table use. The large midrib is sometimes cooked as you would prepare asparagus. (Pkt. 10c) (oz. 15c) (¼ lb. 35c) (1 lb. \$1.00) postpaid.

**Half Sugar Rose** A distinct type of Sugar Beet, producing not only a good crop, but roots of giant size and richest food quality. It has yielded 55 tons per acre, several tons per acre more than the heaviest producers of other sorts on the list. They have a small top, and are easily trimmed. The roots are heavy, but are so easily harvested that they may be uprooted by a push of the foot. The flesh is white, solid, tender and very sweet and imparts a rich, pleasant flavor to dairy products when fed to milk cows. Also particularly good for fattening hogs. (Pkt. 10c) (lb. 60c) (10 lbs. \$5.50) postpaid.



White Swiss Chard



# A & M Cabbage

**Culture** The secret of growing hardy plants is to thoroughly prepare the soil in the plant bed. Plow the soil to a depth of eight or ten inches, pulverize well. Sow in drills not too freely, about one-half inch deep, press the soil firmly over the seed; this is important. In about six weeks transplant in rows three feet apart, one foot in the row for Winnigstadt, eighteen inches for large-heading varieties. Keep the crop well watered and cultivated for when the growth is checked the seed head matures and bursts forth as soon as moisture is again applied. This accounts for much cabbage going to seed. Early varieties mature about three and one-half months after transplanting, late varieties in about five months.

Cabbage may be grown all the year in Southern California and throughout the Southwest.

It should be borne in mind that the big planting of cabbage is intended to meet the Eastern demand in midwinter and early spring, and that our time of planting is out of the natural season, and therefore often subjected to unseasonable weather, which causes it to be stunted and often shoot to seed.

Improper culture, too, will stunt the normal growth of cabbage and cause the heads to prematurely go to seed. Cabbage requires heavy soil but good drainage and frequent but shallow cultivation. However good crops will be obtained on lighter soil if well fertilized.

Should there be a cold spell when the thermometer lingers below 25 degrees, just at the time the cabbage begins to head, twenty-five per cent of the crop may run to seed.

November transplanting escapes the hard winter season that causes so much loss by shooting to flower.

Five ounces of seed will produce plants for one acre.

For control of aphid in field culture dust with Nicot Dust, using No. 6 in hot weather, No. 8 in cooler weather and No. 10 in cold weather. For home gardens Evergreen, Destructol and Black Leaf 40 are very effective.

**A & M Golden Acre Cabbage** This is one of the earliest varieties of cabbage we have ever had in our trials. It resembles somewhat in shape the Copenhagen Market, but is a trifle smaller in size and is 12 to 14 days earlier. In habit of growth it is quite dwarf, very compact and produces a head of desirable size for family use or for packing. The heads average in weight 2½ to 3 pounds. Because of its compactness and the few leaves it may be planted 12 to 14 inches apart in the row and at this rate about 15,000 plants are required for one acre. It is very solid, of uniform shape and size and is what we consider an extra fine all around variety. Our strain of seed comes from the originator and is carefully selected by us for uniformity and other qualities of importance.

(Pkt. 10c) (oz. 75c) (¼ lb. \$2.50) (lb. \$7.50) postpaid.



A & M

Cannon Ball

## Cannon Ball or Short Stem Danish Ballhead

This has become one of the standard varieties for shipping. It is now grown as extensively as the Winnigstadt but it is planted mostly during August and September for early shipping while Winnigstadt is preferred for mid-winter crop. (Pkt. 10c) (oz. 55c) (¼ lb. \$1.85) (lb. \$5.50) postpaid.

**Copenhagen Market** For tenderness and delicious flavor this cabbage is unexcelled. It forms a large round solid head and is very early and crisp. Extensive acreages are grown every year for the market. (Pkt. 10c) (oz. 65c) (¼ lb. \$2.15) (lb. \$6.50) postpaid.

**A & M Early Flat Dutch** This is a splendid strain of Flat Dutch cabbage. It is a favorite with many market gardeners and home gardeners for the reason that every plant produces a head. Heads are large, well flattened on top, and it is a good producer under most any climatic conditions where other cabbage can be produced. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.20) (1 lb. \$3.50) postpaid.



A & M Golden Acre

**Late Flat Dutch** Year by year this variety becomes more and more popular. It is very early, tender, crisp, and just the right size for the dealer. Truckers like it because every stalk produces a head. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.20) (lb. \$3.50) postpaid.

**Early Jersey Wakefield** Very early, maturing in 90 days. Small head inclined to point like the Winnigstadt. Recommended for home garden where earliness is desired. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.20) (lb. \$3.50) postpaid.

**Drumhead Savoy** The best of all Savoy. Short stump, large size, solid head. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.20) (lb. \$3.50) postpaid.

**Red Dutch** Heads of deep color and remarkably solid. Excellent for slaw. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.20) (lb. \$3.50) postpaid.



## A & M Winnigstadt

No other vegetable listed in our catalog has retained its popularity so continuously and for such a long time as our strain of Winnigstadt Cabbage, introduced by us in 1896. As a winter crop it is in great demand. It is popular because it is early, solid, good flavor, sure header, and good shipper. The small heads are particularly desirable for home use, making it a most satisfactory home garden variety. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.20) (lb. \$3.50) postpaid.

CHINESE CABBAGE—See Page 7

## A & M Table Carrots



A & M Chantenay

**Culture** Sow one ounce of seed to 100 feet of row, three pounds per acre.

Carrots are very profitable because of the large quantity that a small patch can produce, and there is no waste, as any surplus may be fed to rabbits or other animals.

Carrots may be planted all the year round. Sow the seed from one-half to one inch deep in rich, moist, loamy soil, well prepared. Sow in rows eight inches apart, and as thin as the drill can be set to sow, or, if sown by hand, aim to have two seed to the inch, or sow in ridges same as lettuce. The carrot has few insect enemies. Nematode is the worst. Irrigate same as for beets. Carrots are ready for use in eight weeks and remain palatable for six months or longer.

**Market**—The local demand for Carrots is all the year round, but the chief demand is from the shipper, who wants them from December 1st until May. For this trade the seed should be planted in August and September. The shipper wants the Chantenay, Oxheart and Danver Half Long.

**Chantenay** Flesh is a deep golden orange color, always smooth and fine in texture, very tender. Excellent bunching variety and is grown extensively by market gardeners. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

**Danver's Half Long** The roots are smooth and of a rich, dark orange color. One of the best sorts for a main crop because it remains edible in the fields longer than other varieties. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

**Improved Long Orange** A deep orange colored variety adapted for farm or garden culture. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

**Oxheart** Beautiful shape and color. The roots generally attain four or five inches in length, and about three inches in diameter. Quality first rate, very tender, and a variety that is used in quantity. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

**Early French Forcing** A small sort but desirable on account of its extra early habit. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

## A & M STOCK CARROTS

**Culture** Drill in rows 12 inches apart, and thin to three inches apart in the row. It requires three pounds of seed to plant an acre. Carrots are healthy food for stock of all kinds and should be more generally grown.

**Half Long White Belgian** Is raised exclusively for stock. Grows to a very large size; is easily gathered. Makes splendid food for cattle, horses and hogs; known to yield forty tons per acre. Will keep four or five months after pulling. (Pkt. 10c) (oz. 20c) (¼ lb. 40c) (lb. \$1.10) postpaid.

**Large Yellow Belgian** Is similar to White Belgian, said to be richer, but with a light orange color; does not keep so well. (Pkt. 10c) (oz. 20c) (¼ lb. 40c) (lb. \$1.10) postpaid.

## Chinese Cabbage

Our strain is the genuine Wong Bok imported from China and is considered the perfect Chinese Cabbage. The large solid heads are crisp and tender and are ideal for salads. It is also useful for cooking and is grown extensively for poultry. Sow from Sept. 1st until Feb. 1st in rows 24 inches apart and thin plants to 10 inches apart in the rows. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.



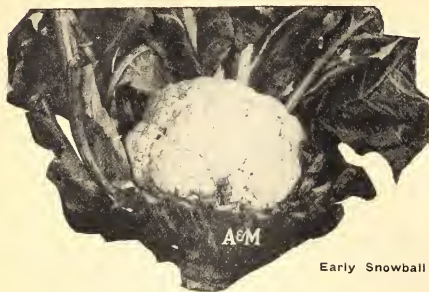
## A & M Collards

The Collard is an old-time favorite, adapted to all parts of the South, and as a producer of "greens" during winter and spring it has no equal. It will pay you to have a collard patch just to feed the chickens.

**Southern Georgia** This variety is the old-time favorite. Stands all sorts of adverse conditions without injury. Is very hardy. In many places where the soil is too poor to grow cabbage, the collard grows easily, and makes a good substitute for cabbage. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$2.00) postpaid.



# A & M Cauliflower



Early Snowball

**Extra Early Pearl** From seed planted in May the crop may be harvested in November. This is the usual procedure in planting this variety in Southern California. It is a most dependable Cauliflower and is sure to head if properly cared for.

We have growers who plant this variety year after year.

(Pkt. 10c) (¼ oz. 65c) (oz. \$2.00) (¼ lb. \$6.50) (lb. \$20.00).

**Medium Early Pearl** Similar in all respects to the Extra Early and Late Pearl varieties except that it should be planted not earlier than June 1st nor later than August 1st. (Pkt. 10c) (¼ oz. 65c) (1 oz. \$2.00) (¼ lb. \$6.65) (lb. \$20.00).

**A & M Late Pearl** Late Pearl Cauliflower attains a height of three to four feet. Plant seed during July to harvest during January and February. This is the variety that has made California Cauliflower famous throughout the United States and is bringing annually more than \$1,000,000 to growers. (Pkt. 10c) (¼ oz. 65c) (oz. \$2.00) (¼ lb. \$6.65) (lb. \$20.00) postpaid.

## Notes Concerning Pearl Cauliflower

Cauliflower is a great favorite from California to New York, because of its excellent shipping qualities. It originated here and has made Southern California famous for her excellent cauliflower. The California Pearl is thoroughly adapted to our mild winter climate and is particularly suited for shipping because of the flower being completely enveloped within spiral curled leaves, which protect the flower from injurious exposure to rain, sunshine or frost, but particularly from injury in packing and in transit. To be packed for shipping it is only necessary to cut the stem at the base of the head, and the leaves about two inches above the head. This leaves foliage enough to cover the crown without wrapping in paper.

The small grower may plant at any time from May until February, but for profit the large grower should carefully peruse instructions given with each variety.



A & M Pearl Cauliflower

**Culture** (For Shippers)—Choose soil from a rich loam to a heavy adobe. The field should be level to afford a uniform moisture. Avoid planting Cauliflower or Cabbage on a hillside.

Early varieties should be planted in the seed bed from May 1st to July 1st. Late varieties from June 1st to August 1st. Early planting of seed is advised in order that the plant may have fully developed before the proper season for maturing. Growers are constantly endeavoring to mature a normal crop out of season. Proper culture will accomplish much toward producing a good crop but too much is expected out of the normal season.

Plants should be ready to transplant from six to eight weeks after seed is planted. Early varieties should be ready for market in November; late varieties in December and January, and later according to the time of planting the seed. Do not attempt to grow Cauliflower or Cabbage unless you have water in abundance.

Five ounces of seed will produce plants for one acre.

**Snowball** This variety is in a class by itself for earliness. The demand for seed begins in April for May planting, which is ready for the local market beginning October 1st.

There is good profit in the early variety, but care should be exercised to avoid blighting by excessively hot weather. At such times apply water abundantly, but cultivate judiciously to prevent any baking of the soil. (Pkt. 25c) (¼ oz. 90c) (oz. \$2.50) (¼ lb. \$7.50) (lb. \$30.00) postpaid.



How Cauliflower is Planted

The field is irrigated several days before and the furrow immediately after planting. Note the size of the plants, also see the water coming in the furrow.

## CUTWORMS

Cutworm injury almost invariably occurs in the spring, plants usually being cut off at the surface or a little below the surface of the ground. This injury begins as soon as the first plants sprout and continues until late in June or early July when the worms have become full grown. Feeding takes place at night, the worms resting during the day beneath debris or in the soil. For best results in controlling this pest distribute **Snarol** over infested areas, taking care to sprinkle it around each hill. See page 83.

## Chives

The famous Schnittlauch and highly prized for flavor. The seed of this is not easily germinated and it will be necessary, therefore, to plant a fairly good quantity of the seed if many plants are desired. (Pkt. 15c) (¼ oz. 85c) (oz. \$2.50) postpaid.

## A & M Cress

**Pepper Grass** Sow curled or pepper grass thickly, in shallow drills, every two or three weeks. It should be cut often, and will continue to grow. It is used not only for salad, but on the breakfast table and for garnishing. Used with lettuce its pungency adds an agreeable flavor. (Pkt. 10c) (oz. 15c) (¼ lb. 50c) (lb. \$1.50) postpaid.

**True Water Cress** Should be sown in damp soil or if it would be much better, in a stream of water can be utilized. It will also thrive well in damp cold frame. Rightly managed, its culture is very profitable. (Pkt. 10c) (oz. 60c) (¼ lb. \$2.00) postpaid.



# A & M Sweet Corn



A & M Early Golden

**Culture** Plant from Feb. 15th to September 1st in hills 18 inches apart, in rows three feet apart. Allow two stalks to the hill, break off all side shoots; cultivate after each irrigation until the corn shades the ground; irrigate every two weeks until in the milk, then once or twice a week, and this will produce a solid, tight husk, which will prevent the worms from doing much damage.

Instead of planting long single rows of corn it is preferable to sow several short rows along side each other so that pollen scattering from the top tassels is more likely to reach the silk of the ears below. A rotation of corn may be obtained by planting at the same time some A & M Early Golden, Golden Bantam and Oregon Evergreen and they will mature at intervals in the order named. Plant 10 lbs. per acre.

**A & M Oregon Evergreen** Oregon Evergreen corn now has the endorsement of every gardener that grows for the Los Angeles market. We are safe to say that any gardener growing this will show to his customers its superiority over all other sweet corn. It is many years since we first offered this new and distinct variety. The demand has grown each year until it is now practically the only variety offered on the Los Angeles market. The advantages of this corn over all others are its earliness, its large size, rarely less than eight inches long. The grains are full to the tip and delicious.

The husk is very thick and folds so tightly over the grains that the worm does very little damage, compared with other varieties. It is desired by the peddler and groceryman because of its thick husk, and it can be held over two days before it appears old or wilted. It is very productive, often bearing five marketable ears. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

**A & M Early Golden** This is a light golden colored Golden Bantam. The ears are also larger than Golden Bantam and are of a very fine flavor, being sweet and tender. The stalks are dwarf in nature, growing to a height of about 3 feet, each stalk producing two or three ears. (Packet 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

**Golden Bantam** A home garden variety that is highly desirable because of its flavor and sugar content. It is very early, dwarf in habit and a good yielder. By removing the suckers as they appear several ears may be produced on the main stalk. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

**Country Gentleman** A delicious sweet corn. The ears show that the coarser varieties, but for private family use, where quality is preferred to size, it is excelled only by the Golden Bantam. The cob is very small, giving great depth to the kernels. The great merit of "Country Gentleman" is its fine quality. It matures in ten weeks. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

**A & M Early Adams** This is a cross between the Oregon Evergreen and the Eastern Extra Early Adams. The superiority of this strain over the former eastern-grown Adams is shown in its earliness, large size and sweetness. It is nearly as good as the Oregon Evergreen, and it is earlier and harder. It is one of the many good things that originated here. Although it may be frosted when six inches high it will come again. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

**A & M Large Adams** This is the best market value crop. It will mature in fifty-five days. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

**Stowell's Evergreen** If planted at the same time with the earlier varieties and at intervals of two weeks until July 1st, it will keep the table supplied until November. It is hardy and productive, very tender and sugary, remaining a long time in a fresh condition. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

**Black Mexican** One of the best sweet corns for this section. Deliciously sweet and tender very productive. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) prepaid.

## SEMESAN, JR.

For better results dust seed corn before sowing with Semesan, Jr. It is effective in controlling diseases, accelerates germination, develops sturdier plants, promotes earlier maturity, improves quality and increases yields. (4 oz. 50c) (1 lb. \$1.75) (5 lbs. \$8.00) (25 lbs. \$31.25) f. o. b. Cannot be mailed.

## Pop Corn

**Rice** Sharp pointed grain is preferred by vendors, but is not profitable to grow here at the usual price because of the devastations of the worm. (Per Pkt. 10c) (lb. 30c) (10 lbs. \$2.50) prepaid.

**Yellow** Large smooth grains Golden Yellow Color. It pops large, has excellent flavor and is the most profitable to grow. (Pkt. 10c) (lb. 30c) (10 lbs. \$2.50) prepaid.

# A & M Cucumbers

**CULTURE FOR HOT-BED**—Make the frame eight feet wide and as long as is desired, using 12 in. boards. Select a place with good loamy soil on a sunny slope. Mix the soil almost half and half with horse manure. About February 1st sow liberally with seed, in hills three feet apart each way. Stretch wire over the frame across and lengthwise. Sow muslin in widths and lengths to cover frame. Arrange to roll the muslin on a stick as a curtain. Cover each evening, and open each day.

**FIELD CULTURE**—Plant from March to October in hills 4 to 6 feet each way, 8 to 10 seeds to a hill. Earlier sowings can be made by protecting with Hotkaps. Cover an inch deep. When danger of insects is past, thin out the plants, leaving 3 or 4 of the strongest in each hill. It is ready for the table in six weeks from planting seed. One ounce of seed will plant 50 hills; two pounds to the acre.

## A & M Special Long Green

This is a great improvement over the old strain of Long Green. The fruits are unusually handsome, being of good form and of a deep green color which is retained a considerable time after picking. 9-10 inches in length.

(Pkt. 10c) (oz. 25c)  
 (¼ lb. 85c) (lb. \$2.50)  
 postpaid.



A&M

**A & M Davis Perfect** This is the ideal cucumber. Long, slender, dark green, tender and crisp. It is the best all-around cucumber yet offered for the family garden, and the hot house. Do not hesitate to plant this variety. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

**Klondike** This cucumber has steadily grown into favor since we first offered it. It is the one variety that made carload shipments possible because it is firm, dark green color, and stays green until consumed. It is a desirable size, just 7 to 8 inches long, symmetrical in shape, and especially crisp and palatable. It is an excellent variety for pickling when young, as well as desirable for the market. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

**Lemon Cucumber** Every one who has tried it is unanimous in its praise, and would not think of omitting it from the spring garden. It is the color of a lemon when ready to use, and similar in shape, being less pointed at the ends.

There is nothing but approval for the Lemon Cucumber. It may now be found at almost any vegetable stand, and no home garden should be without it. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (lb. \$2.50) postpaid.



Lemon Cucumber

**Salad Cucumber** One of our own introductions and one of the finest cucumbers ever grown. It is now being sold on the market and we advise market gardeners to introduce it to their trade. It is a very mild cucumber and does not have the bitter or strong taste often found in other varieties. For the home gardener a few hills of salad cucumber will be one of the most interesting things in the garden and the crisp tasty cucumbers will provide a most delicious salad. The color is a bright, appetizing yellow. Try them and you will not be disappointed. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (1 lb. \$3.00) postpaid.

**White Spine** A popular, early variety for slicing. Very prolific, crisp and excellent for pickling when young. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

**Chicago Pickling** This is the variety that is grown and has given the growers satisfactory results for years.

It is chosen because of its delicious quality and its shape, being one inch thick and three inches long when at pickling size. It is enormously prolific, bearing in clusters. We can recommend it for the home garden. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

**Everbearing Cucumber** This variety is entirely distinct from all others on account of its close, bushy growth and everbearing character. The first cucumbers are ready very early and the vines continue to flower and produce fruit continually until late in the season, whether the ripe cucumbers are picked off or not, differing in this respect from all other varieties of cucumbers in cultivation. One of the old reliable varieties growing 10 to 12 inches long. The skin is dark green, the meat firm and crisp. Is used extensively for forcing, and early field growing. Our strain of seed produces a large percentage of uniform size and shape for packing and shipping. We recommend this to be planted in home gardens at all times, but especially in September. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

**Gherkin** This cucumber is the most delicious of all the cucumber family when properly pickled. It should be more extensively grown. Planted where it may climb on a trellis, one vine will cover a section of fence eight feet high and twelve feet wide, producing possibly a thousand or more of the delicious and oddly shaped gherkins. It should be planted to shade a window or back porch. (Pkt. 10c) (oz. 25c) (¼ lb. 90c) postpaid.

**Japanese Climbing Cucumber** This variety should be grown more extensively; it is equal to others in quality and can be grown more economically in a small garden by planting near a fence or trellis of any kind, and climbs by tendrils as a grape vine. Whether space is a factor or not, we recommend it. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.



## A & M Celery

**Culture** Sow one-half ounce of seed to 100 feet of drill;  $\frac{1}{4}$  lb. per acre. Sow the seed from Jan. 1st to May 1st, in drills 6 inches apart, not too thick in the row to secure stalky plants. In June when the plants are strong, transplant to furrows three feet apart and six inches deep. Set the plants six inches apart in the furrows; as the plant grows fill the earth toward the plant to secure proper bleaching. Never allow dirt to rest on the heart of the plant. Never work in celery when it is wet with rain or dew. Spray frequently with Bordeaux, sometimes adding a little B L 40 to control worms.

**Celery Rot**—Do not allow water to stand during the heat of the day after irrigating. It will cause Celery Rot in the early crop.

**Hollow Stem**—When the growth is rank and the stalks so close that free ventilation of air is retarded during the hot weather, the stems become soft and hollow; therefore we recommend the single-row planting.

**Market**—The local consumption and outlying distribution disposes of a very large acreage, but owing to its erratic nature it requires a peculiar soil and professional culture. Therefore, there are few localities where it can be forced to earliness. May, June and July celery brings a high price to the grower. Then there comes an oversupply until the shipper disposes of it. When a surplus exists cold storage is resorting to, with doubtful profit, on account of the perishable nature, the shrinkage and the expense.

### A & M GOLDEN SELF BLANCHING French Grown Seed



A & M Golden Self Blanching  
French Grown

We have two distinct strains of this seed, one being the standard height while the other is 8 to 10 inches taller. Please specify on your order which you want. This very fine strain of A & M Celery grows rapidly, the outer leaves are quite tall on the long tops, so that the grower may sometimes be inclined to market it before the heart is mature. Be careful about this and give it more time if necessary. If you are producing celery for the market see us about seed, for we have made a careful study of this particular crop over a period of years and can probably be of assistance to you. Long top or short top. (Pkt. 10c) (oz. \$1.50) ( $\frac{1}{4}$  lb. \$5.00) (1 lb. \$20.00) postpaid.

### Golden Self Blanching

**California Grown Seed**  
Another year has demonstrated that our strain of California grown seed is equal to the imported in producing good celery. Every grower in Florida who tried our California grown seed has ordered ever since in larger quantities. Our seed is now accepted by all who have used it as fully up to the imported. We offer it to you with our full recommendation. (Pkt. 10c) (oz. 80c) ( $\frac{1}{4}$  lb. \$2.65) (lb. \$8.00) postpaid.

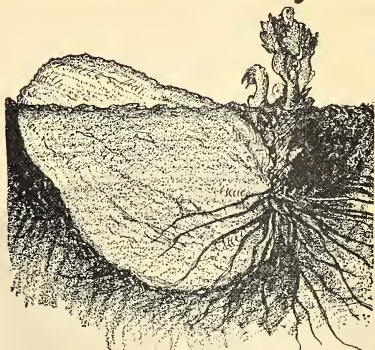
### White Plume

California grown. Its stock, inner leaves and heart are naturally white, so that simply drawing the soil up against the plant and pressing it in is all the work required for blanching. (Pkt. 10c) (oz. 40c) ( $\frac{1}{4}$  lb. \$1.35) (lb. \$3.50) postpaid.

### CELERIAC

**Smooth Prague** A large celery flavored root used extensively for flavoring soups, pickles, etc.; also relished as a salad. (Pkt. 10c) (oz. 35c) ( $\frac{1}{4}$  lb. \$1.20) (lb. \$3.50) postpaid.

## A & M Chayote



Chayote as it Should be Planted

**Cultural Directions** One fruit envelopes one seed, which sprouts from the large end. Plant where you intend it shall grow. Cover only the large end, leaving the small end exposed. (See picture.) Or let the fruit lie around until it has well sprouted, and then plant the seed, leaving the sprout well above ground. Water freely and do not be alarmed if frost should destroy it. A new shoot will soon appear. Give it abundance of water throughout the hot summer season.

The Chayote is no longer a novelty. It has now become an article of commerce. It may be found on sale at large grocery stores throughout the season, which lasts from October until March.

The vine is a rampant grower. The first year from seed it will grow twenty to thirty feet. Destroyed to the ground by frost, it soon sends out new growth, and during the second season will extend vines forty or fifty feet in every direction. During September it starts blooming, having a small, white, insignificant flower. Within four weeks the fruit is large enough for the table. Cook in the same manner as squash. Orders shipped January, February and March only.

Each 50c postpaid.

## A & M Egg Plant

**Culture** The seed should be sown in a hotbed during December or January; it is slow to germinate and requires warm and even temperature. The plants should be ready to set out by April 1st, and may be planted as late as August 1st. Plant eighteen inches apart. Keep well watered and pick closely as soon as large enough. In very warm protected spots they will survive the winter. Even if the foliage is destroyed sprouts may appear the following spring from the stem beneath the soil and mature marketable fruit the following May. Egg plants require four to six months to mature. One-fourth pound of seed is sufficient to plant an acre.

**Tree Egg Plant** This variety is of medium size and extremely good shape, being particularly adapted to slicing, as there is no waste of material. It resists drought and bad weather to a wonderful degree, partly on account of its strong, upright growth. It bears its fruit sometimes one or two feet above the ground, thus escaping liability to rot. It is very satisfactory for the home garden. (Pkt. 10c) (oz. 75c) ( $\frac{1}{4}$  lb. \$2.50) (lb. \$7.50) postpaid.



### New York Improved

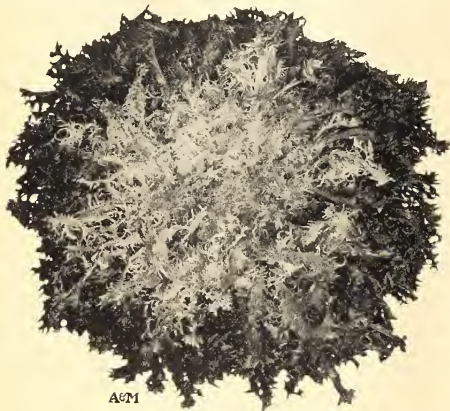
This variety has superseded all others, both for market and home use. The large size and high quality of its fruit and its extreme productiveness make it the most profitable for the market gardener. It is spineless, which is a great advantage in shipping. (Pkt. 10c) (oz. 75c) ( $\frac{1}{4}$  lb. \$2.50) (lb. \$7.50) postpaid.

New York Improved

# A & M Endive

**Culture** Same as for lettuce. Seed may be sown any time during the year. When plants are well started, thin out to ten inches apart or they may be transplanted. When plants have reached a good size, gather the leaves closely together and tie loosely in an upright bunch. This blanches the inner leaves in about ten days and adds to the crispness as a salad, as it renders the flavor mild and delicate. One ounce will sow 400 feet of row.

This plant furnishes an attractive and appetizing salad for the fall and winter months; by repeated sowings a supply may be had nearly all the year 'round.



A&amp;M

A &amp; M Green Curled Endive

**Green Curled Golden Heart** Leaves are finely curled or lacinated, giving the plants a rich, mossy appearance, which is greatly enhanced when the centers are nicely blanched.

This is the variety generally preferred because it blanches to a beautiful golden yellow. (Pkt. 10c) (oz. 20c) (¼ lb. 70c) (lb. \$2.00) postpaid.

**White Curled** This beautiful variety does not need blanching to prepare it for use, the mid-ribs being naturally of a pale, golden yellow, the finely curled leaves are almost white. (Pkt. 10c) (oz. 20c) (¼ lb. 70c) (lb. \$2.00) postpaid.

**Batavian or Escarol** Forms large heads of broad, thick leaves, which can be blanched for a salad or it will make excellent cooked greens, as well as being useful to flavor soups, stews, etc. (Pkt. 10c) (oz. 20c) (¼ lb. 70c) (lb. \$2.00) postpaid.

# A & M Chicory

## Large Rooted

Seed should be sown quite thinly in shallow drills early in the spring. When well started, thin out to stand two or three inches apart in the row and give good cultivation all summer. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.

**Witloof** Sow the seed in deeply prepared ground during June, July and August. In December make trenches ten inches deep and twelve or fifteen inches wide. Set the roots three inches apart in rows eight inches apart, within the trench, so the tops of the roots are eight inches below the top of the trench. Then fill with a mixture of sand and humus, water thoroughly.

This is a most delicious salad. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.



WITLOOF CHICORY.

# Gourd

**CULTURE**—Gourds are tender annuals, of trailing or climbing habit. The seed should not be planted until the ground is warm. Plant in hills and cultivate as cucumbers. Leave only two plants in a hill, and allow the vines to ramble or train over a trellis for shading windows.

**Dish Rag Gourd** The peculiar fibre within the gourd gives it its name. The fruit grows about one foot long. The interior fibre is serviceable for a variety of household purposes, being used as a dish cloth, or sponge. The fibre is tough, elastic and durable. (Pkt. 10c)

**Mock Orange** A good old sort, the gourd often finding its way into the family sewing basket. A beautiful and rapid climber, quickly covering trellises. (Pkt. 10c)

**Hercules Club** This often grows to a length of four feet, but is not the same as the New Guinea Butter Bean which it resembles. (Pkt. 10c)

**Dipper**—Bowl with long handle. (Pkt. 10c).

**Bottle**—Bowl with short handle. (Pkt. 10c).

**Pipe**—Often made into pipe for smoking tobacco. (Pkt. 10c).

**Nest Egg**—(Pkt. 10c).

**Mixed Gourds**—A mixture of novel shapes and colors. (Pkt. 10c)

## Edible Gourd

Very useful for providing a summer arbor. The young fruits make an excellent dish when served after the manner of squash. (Pkt. 10c) (oz. 30c) (¼ lb. 90c) postpaid.



Mixed Gourds

# Herb Seeds

**Anise**—Used as a cordial and for garnishing and flavoring. Seeds have an agreeable aromatic taste. (Pkt. 10c) (oz. 35c).

**Basil**—Sweet. The leaves are used for flavoring soups, stews and highly seasoned dishes. (Pkt. 10c) (oz. 50c)

**Borage**—The leaves are used for flavoring and the flowers furnish bee pasture. (Pkt. 10c) (oz. 50c)

**Caraway**—Grown for the seeds, which are used extensively for flavoring of bread, pastry, etc. (Pkt. 10c) (oz. 25c)

**Catnip or Catmint**—The leaves are used for seasoning. It also makes an excellent bee pasture. (Pkt. 10c)

**Chervil**—Used in soups and salads. (Pkt. 10c) (oz. 15c)

**Coriander**—The seeds are used in the manufacture of liquors and confectionery. (Pkt. 10c) (oz. 25c)

**Dill**—The seeds have an aromatic odor and warm, pungent taste. They are used as a condiment and also for pickling cucumbers. (Pkt. 10c) (oz. 25c)

**Fennel**—Sweet. The boiled leaves are used in sauces. (Pkt. 10c) (oz. 30c)

**Lavender**—Used chiefly in the manufacture of perfumery. (Pkt. 10c) (oz. 75c).

**Marjoram**—Sweet. The leaves and the ends of the shoots are esteemed for seasoning in summer and are also dried for winter use. (Pkt. 10c) (oz. 75c)

**Rosemary**—The aromatic leaves are used for seasoning. (Pkt. 10c) (oz. \$1.00)

**Sage**—The most extensively used of all herbs as a seasoning for dressing. (Pkt. 10c) (oz. 75c)

**Sorrel**—Used in soups and salads for its pleasing flavor. (Pkt. 10c) (oz. 35c).

**Summer Savory**—A hardy annual. The dried stems, leaves and flowers are extensively used for flavoring—particularly in dressings and soups. (Pkt. 10c) (oz. 75c)

**Saffron**—Used for flavoring. (Pkt. 10c)

**Thyme**—Used for seasoning. (Pkt. 10c) (oz. \$1.00).



## A & M Kale



Tall Scotch Kale

**Culture** Seed should be sown thinly in drills, about the middle of June for the tall sorts; 2 lbs. seed for the acre; transplant the young plants 12 inches apart in rows three feet apart. Later in the season the dwarf sorts may be sown rather thickly in drills to furnish small heads to be cooked like spinach. One ounce to 100 feet of drill.

**Tall Scotch** This makes a beautiful plant, 3 to 8 feet tall. The crinkled leaves resemble parsley, but they are much larger. An excellent table variety. (Pkt. 10c) (oz. 25c) (¼ lb. 65c) (lb. \$2.00) postpaid.

**Jersey or Thousand Headed** The large smooth leaves may be cut or broken off when they are full grown and they will soon be replaced with new ones. Ninety to one hundred pounds of green feed per week may be cut from fifty plants if they are well cared for. We furnish seed to many large poultry colonies and can supply it in large quantities. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

**Siberian** We believe this to be superior to other varieties because it grows more greens for poultry, and is of better flavor for the table. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

## A & M Kohl Rabi



A & M Kohl Rabi

Seed may be sown every month in the year. Drill on ridges same as beets. Thin to three inches apart. An ounce of seed will produce 2,000 plants.

### Early White Vienna

The earliest sort, very tender, excellent for table use. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

### Early Purple Vienna

Similar to above, but has flesh of purple color. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

## A & M Leek

**A & M Leek** We believe in having the best of everything. With this idea always before us, we have secured this fancy strain of leek. It is large, white, tender and mild—the best in the world. Its mild, delicate flavor makes a delightful addition to lettuce salad. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.15) (lb. \$3.50) postpaid.

## A & M Mustard

**Yellow Seeded** The seed is used extensively for spicing, pickling and other culinary and medicinal purposes. The young plants make delicious greens. (Pkt. 10c) (oz. 20c) (lb. 50c) postpaid.

**Southern Giant** The true curled-leaf variety so popular in the South for planting in the fall. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

**Ostrich Plume** Is delicious as well as ornamental; the leaves resemble ostrich plumes, hence the name. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

**Chinese White** This is a delicious vegetable and savors strongly of Brussels Sprouts, being less pungent than the American varieties. It is greatly relished by the Orientals, and can be seen all the year 'round at vegetable stands kept by the Japanese and Chinese. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.

**Chinese Green** This is an Oriental vegetable, and like the White Mustard, is grown all the year 'round, but like our American Spinach, thrives best in the winter season. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.



A & M Southern Giant Mustard

## A & M Mushrooms

Mushrooms can be grown in any dark room or cellar where the temperature can be kept at 50 to 75 degrees. The main conditions in mushroom growing are proper and uniform temperature, and very rich soil. One pound of spawn is sufficient for a bed 2x3 feet. We have the very best spawn obtainable.

Many inquiries come to us from would-be growers of mushrooms. Our reply is not always encouraging because many growers have marvelous success for a time, but we know of not one permanently prosperous grower. There seems to be an element of uncertainty.

**Pure Culture Spawn—Brandywine**—Put up in bricks. (Per brick 40c) (5 bricks \$1.75) postpaid.

### A NON-POISONOUS SPRAY

Ever Green is ideal for spraying vegetables because it is absolutely non-poisonous and will not harm the most delicate plant nor injure flavor in any way. Ever Green does not leave poisonous residue. For commercial use Ever Green is economical on the following: Aphids, Asparagus Beetle, Big Caterpillar, Cabbage Worms, Leaf Hopper, Leaf Tier, Mexican Bean Beetle, Rose Chafer, Rose Slug, Strawberry Leaf Beetle, Striped Cucumber Beetle, Squash (Stink) Bug, Tarnished Plant Bug (Aster Beetle). See page 52.





A &amp; M Los Angeles Market

## A & M Lettuce

**Culture** At the time of sowing the soil should be in finest possible condition, well pulverized. The plants should be grown on ridges 14 to 18 inches wide, 4 to 6 inches high and in double rows 10 to 15 inches apart. The water should be run between the ridges and not permitted to flow over the tops as this cakes the soil. Water should never be allowed to cover the plants. There should always be an adequate amount of moisture in the soil from the time the plants have commenced to head until they have matured. The hoeings necessary on raised beds will vary from one to three times. The earth around the plants should not be allowed to harden. Drill 2 lbs. of seed per acre for double rows and thin plants to 10 inches when about one inch high.

**Los Angeles Market Lettuce** We introduced this lettuce to the local market gardeners' trade in 1904 and in 1906 we shipped the first crate of lettuce which ever left California. This arrived in Philadelphia in satisfactory condition and was the beginning of the great lettuce shipping industry. Los Angeles Market has now become the leading variety, thousands of carloads being shipped each year, and growers and distributors have learned to depend upon the A & M strain for the best shipping type. Every pound of A & M Los Angeles Market Lettuce seed is from fields that have been carefully inspected for type, and our crops are otherwise given personal attention. It is one of the largest and most solid heading varieties in existence, often weighing 2½ and 3 pounds to the head, and always a prizewinner.

During the past few years there has been an insistent demand for us to put up our strain in sealed bags, and we are now offering specially branded and sealed bags of our now famous strain of A & M Los Angeles Market Lettuce for your protection as well as ours. (Pkt. 10c) (oz. 20c) (¼ lb. 55c) (lb. \$2.00) (5 lbs. \$9.25) (10 lbs. \$17.50) postpaid.

**Iceberg** This is next to Los Angeles Market as the heading variety for the Southwest for the summer planting. Of course it is better during the winter months, but not so solid as the Los Angeles Market, which is strictly a winter variety, while the Iceberg is a good all-season lettuce, and hundreds of carloads of Iceberg are being shipped when the other is not available. Iceberg Lettuce planted later than March 1st should be grown on dark, heavy soil, because if grown on light, sandy soil, the heat of the sun reflected from the sand on the under side of the leaves causes them to burn almost to the heart.

The light green, curled, red-tinged leaves of the Iceberg form heads as large as the Los Angeles Market, but not so solid, but it is as tender and crisp and of excellent flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 55c) (lb. \$2.00) postpaid.

**Early Curled Simpson** This is a very popular variety as a loose leaf lettuce. The leaves are large, thin, very tender and of a very good quality. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

**Hanson** Without exception this is the best variety for late spring and mid-summer crop. Prof. F. W. Mally, Farm Demonstrator of Webb County, Texas, discovered Hanson Lettuce to be resistant to both heat and disease, and particularly resistant to eel worm which is often prevalent where least expected. Hanson Lettuce is similar to the Iceberg Lettuce, except that it has not the tinge of red. We recommend it for the home garden. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

**Big Boston** Very large, smooth-leaved, solid-heading variety grown extensively throughout the east and south. It is congenial to all climates, and is a good shipper. In flavor it probably excels all other smooth-leaved varieties. An excellent all year round lettuce. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (lb. \$2.50) postpaid.

**Grand Rapids** Similar to Early Curled Simpson. The luxuriant growth makes it a desirable variety for the poultryman. It is also an excellent variety for the table and good all the year. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

**Chicken Lettuce** This variety of lettuce should not be confused with the regular heading or loose-leaved varieties. The plant grows very much like kale, to a height of four to five feet, with much growth of leaf. It is used mainly for chicken and rabbit feeding. It does not head and is seldom if ever used for table purposes. The wonderful leaf growth makes it ideal for green food for chickens, etc. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

## Paris White Cos (Romaine)

This might well be spoken of as the "Aristocrat" for the reason it is used almost exclusively at aristocratic clubs and hotels for salads, because it is crisp and has a delicious, nutty flavor.

Gardeners would profit to give more attention to this variety. (Pkt. 10c) (oz. 20c) (¼ lb. 55c) (lb. \$2.00) postpaid.



Paris White Cos (Romaine)

# Hotkaps

## Protect plants from frost



1. Place  
HOTKAP  
in Setter.



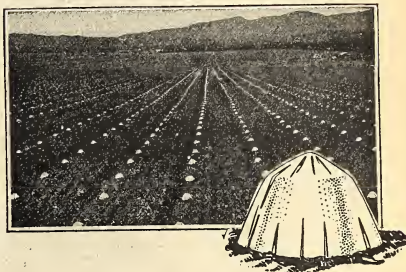
2. Cover  
Outside  
Edge of  
HOTKAP  
With Soil.



3. Tamp Soil  
Around  
Edge of  
Setter.

HOTKAPS are patented wax paper cones that completely cover each plant—the only way to fully protect them from frost. They are an "individual hothouse for each plant," protecting them not only from frost, but from wind, rain, ground-crusting, and insects as well. This is your assurance of earlier, bigger crops and early-to-market prices.

HOTKAPS are quickly and easily "set." One man can set over 3,000 of them a day. The illustrations on the left show how they are placed with the aid of the HOTKAP Setter and Tamper. Thousands of progressive farmers in every state are now regular users of this modern crop necessity. They are getting bigger, harder crops and greater profits than ever before.



Prices f. o. b. Los Angeles. Send postage extra if wanted by mail.

1,000—\$11.50 per 1,000      5,000—\$11.00 per 1,000      10,000—\$10.75 per 1,000  
250 Trial Package, including Garden Setter with Tamper, \$4.00. 100 Home Package, including Garden Setter with Tamper, \$2.50. No quantity sold less than 100.  
Hotkap Steel Setter with Tamper—\$2.50. Home Garden Setter—50c. Postage extra.  
Weights—1,000 package Hotkaps, 26 lbs.; 250 package, 9 lbs.; 100 package, 5 lbs.; Steel Hotkap Setter, 3 lbs.

### GLASSINE FLAT PAPER PLANT COVERS

An inexpensive and economical protection. These are not Hotkaps and have to be folded. Packed 1,000 to bundle. F. O. B. Los Angeles.

Size	Approx. Weight	100 Price	1,000 to 4,000	5,000 to 9,000	10,000 or more
15 x 16	15 lbs. 3 ozs.	40c.	\$3.25	\$3.00	\$2.80
16 x 18	17 lbs.	45c.	3.75	3.50	3.40

## McQueen's Culture

(Dust-Kote)

McQueen's Culture (Dust-Kote) is a nitrogen-fixing bacteria for inoculating legumes. When the bacteria are absent the plant cannot feed on the air nitrogen but feeds on the soil nitrogen, thus making the land poorer. McQueen's Dust-Kote hastens maturity, increases the crop, improves its quality, enriches the soil and saves fertilizer bills. It comes in dust form and no water is needed. Only a few minutes are required to treat the seed. Do it right in the seeder or drill box. Full directions with each package. When ordering specify what seeds are to be inoculated.

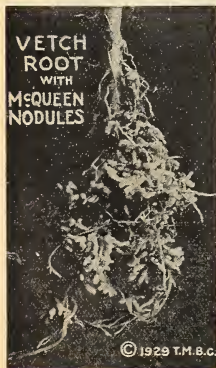
### FOR LARGE SEEDS

Cow Peas	Peanuts	Garden Peas
Soy Beans	Vetch	Garden Beans
Canada Field Peas	Sweet Peas	Lima Beans
5 bushel size inoculates 300 lbs. seed		\$1.75
2 bushel size inoculates 120 lbs. seed		1.00
1 bushel size inoculates 60 lbs. seed		.50

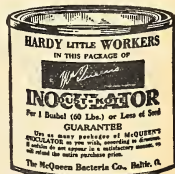
### FOR SMALL SEEDS

Alfalfa	White Clover	Burr Clover
Crimson Clover	Alsike Clover	Hubam Clover
Sweet Clover	Mammoth Clover	Red Clover
2½ bushel size inoculates 150 lbs. seed		\$2.00
1 bushel size inoculates 60 lbs. seed		1.00
½ bushel size inoculates 30 lbs. seed		.50

GARDEN SIZE (composite culture for Garden Beans, Garden Peas, Lima Beans and Sweet Peas) .....15c



© 1929 T.M.B.G.

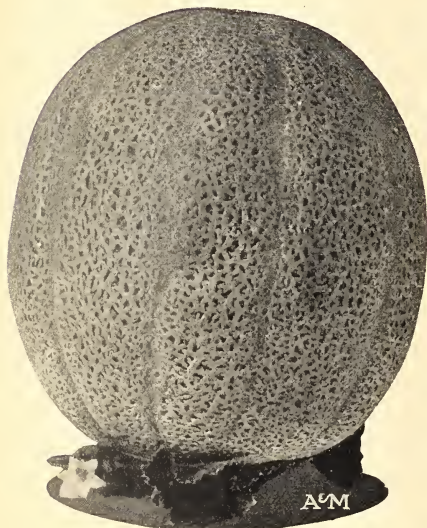


IT'S PUT ON DRY  
INOCULATE SEED WITH

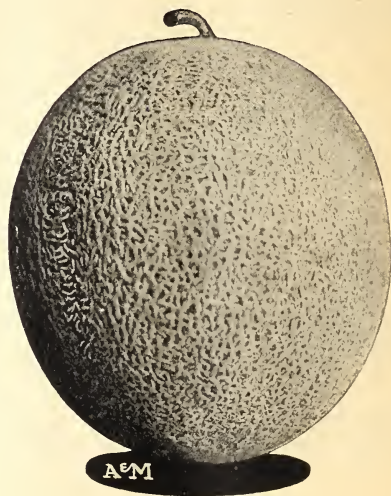
McQUEEN'S  
Inoculator



## A & M Select Melons



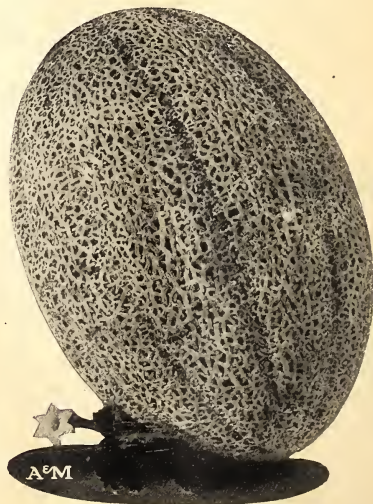
Hale's Best



Improved Perfecto



Tip Top



Improved Burrell's Gem

# A & M Muskmelons

**Culture** The soil must be thoroughly soaked down to submoisture, either by rain or irrigation. When dry enough plow ten or twelve inches deep. Thoroughly pulverize the soil. Prepare furrows eight to ten inches deep and 6 feet apart. Plant from February 15th to June 15th; however earlier plantings may be made by using Hotkaps as a protection. Sow 6 or 8 seeds to the hill.

As the plants grow gather the soil around until the roots are twelve inches or more below the surface. Thin out all surplus plants as soon as they are hard and well established. The rows are now straight and an equal distance apart. This makes it easy to cultivate close to the hills, both lengthwise and crosswise. Cultivate deeply as long as there is no danger of disturbing the roots. Be always mindful that the roots are as long as the vine, therefore when working close to the hills and among the vines, let the hoeing or cultivating be shallow.

Always cultivate the irrigation furrow as soon as the soil is dry enough to mulch nicely.

If this rule is intelligently adhered to your vines will never suffer from drouth, or root blight, and will be healthier in every way, because the roots are deep down in the cool, moist earth unaffected by the heat of the sun. This is the secret of success with all midsummer crops.

**Hale's Best** An extra early salmon tint of remarkable flavor. The seed cavity is small and the attractive salmon tinted flesh is firm. Melons are oblong, well netted and very attractive. It is ten days to two weeks earlier than other shipping varieties and yields wonderfully well. Large quantities are being planted in the Imperial Valley for shipping purposes. Our strain of seeds is regular A & M quality from carefully rogued fields. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

**Improved Perfecto** This is a new and very promising type of the Rocky Ford. Growing and shipping trials of these during the past season proved very satisfactory and there is reason to believe that it will become a most popular shipping and marketing variety. The seed cavity is triangular and small; the flesh being extremely thick, sweet and spicy; the meat is pink. Melons are almost perfectly round, heavily netted, no ribs and the shipping qualities are splendid. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

**A & M Tip Top** This popular muskmelon is another triumph for Aggeler and Musser Seed Company because of our effort years ago to introduce it. The gardener was slow to accept it, but knowing its merits we persisted in offering it. It is now the most popular muskmelon grown for the local market. The yellow flesh is edible to the rind. The melon is of medium size. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

**Improved Burrell's Gem** Has established itself as one of the biggest yields. The shipper calls for it because it is solid and carries well in transit. The consumer wants it because of its excellent flavor. The growers all want our seed because we have the best strain. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

**The Famous Indiana** This melon has a rich yellow flesh and a flavor that may be compared with the Persian. It is heavily netted, very thick meat and holds up in good condition for several days. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

**Rocky Ford** The well known Improved Netted Gem. A very early small melon, oblong, slightly ribbed, heavily netted, having green flesh of excellent flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

**Pollock 10-25** An improved strain of the popular Rocky Ford. It eliminates every defect of all other strains. Perfect in size, shape, netting, flavor, and long keeping and good shipping qualities. Our seed is pure. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

**Nicholson's Honey Ball** This Melon has become very popular. It resembles in appearance the Honey Dew and the flavor is blended with the popular Texas Cannonball. The Honey Ball is a cross between the two. It is a good long distance shipper and may supercede the popular Rocky Ford Melon. Average weight is 4 lbs. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

**Whites Favorite** The flesh is white without fibre. It melts away like the flesh of the Hybrid Casaba and is as sweet. The rind is creamy yellow, scantily netted but with large ridges. No muskmelon is so prolific. It is ideal for the home garden or to grow for a roadside market. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.75) postpaid.

**Irondequoit** This excellent melon originated in Irondequoit, New York; hence its name. It is as popular in New York City as the Tip-top is in Los Angeles.

It may well be called the Improved Tip-top, for that is what it is. The appearance is similar except the netting which is heavier; it is more solid and less prone to split. The average size is slightly larger; the flesh is yellow and the flavor unsurpassed. It is an ideal melon for the peddler or the cafeteria. It is neither too large nor too small. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (lb. \$2.50) postpaid.

**Gautier Pineapple** It is medium to large size, heavily netted, green fleshed with excellent flavor; solid and a good carrier.

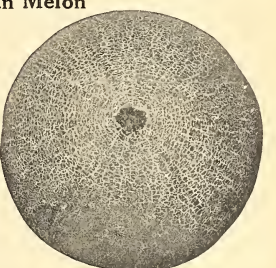
We have the true type and recommend it to melon growers that they may again get the Old Original Pineapple Muskmelon. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

**Gold Lined Netted Rock** This is the Rockyford with the tinge of yellow around the seed cavity bred up to the highest state of perfection from the rust-resistant strain. The heavy netting forms a ring so hard that it will ship to the far Eastern markets with practically no deterioration. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

**Hearts of Gold** A splendid shipping variety and is increasing in use. The melons are oval to oblong in shape and are a little larger than the Rockyford variety. While it is a ribbed melon the ribs are not prominent and the melon is very heavily netted. The flesh is a rich orange color, fine grained and of excellent flavor. The seed cavity is small. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

## A & M Persian Melon

Large, extremely netted without ridges, thick yellow flesh of delightful flavor. A good keeper and a good shipper. It should be picked while yet quite solid. Customers should be educated to purchase half a dozen at a time and set them away to be eaten as they become mellow like a Casaba. When properly picked they are ready for the table within six to ten days. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.



A & M Persian

**Baby Persian** In every respect this is equal to the regular Persian Melon but its uniform size of approximately 6 inches in diameter makes it very desirable for packing in crates. Very useful for small families or for the home garden or nearby market. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.

**Turkish Melon** This is one of the excellent melons brought to California by the Armenians. Its flavor is equal to the Persian melon. It has yellow flesh and resembles the Persian melon in every way except that it shows on the rind a faint stripe and is without the heavy netting. Do not hesitate to order it for it is just as good as the Persian for the home garden or nearby market. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

## FOR ALL KINDS OF MELONS

**FOR APHIS**—First keep the vines hardy by deep planting and proper cultivation, irrigation and fertilizing. Then if the aphid appears, which is unlikely, spray with Nicro-Dust, or bury the affected part with dust. Either way is a constant fight. Lady bugs in some instances are destroying the aphids very satisfactorily.

**FOR MELON BLIGHT** that is caused by a fungus at the root, spray the hill freely with Bordeaux so that the liquid will follow the stem several inches beneath the surface. This should be done at a precaution rather than as a remedy.

**READ THIS.** If you would prolong the life of your vines, make a path between the rows by training the vines to grow along the rows and not across from one row to the other.

For a good yield of melons grow a crop of *Melilotus indica* during the winter. Flow under during February; broadcast two sacks of each of Toro Sulphur and lime. This is a precaution against blight and will fertilize your field as nothing else will do.



## Melons—Continued

### Oriental or Japanese

This melon appears to be a cross between Golden Beauty Casaba and Persian Melon. It has the same salmon tinted flesh as the latter but the texture is as fine as a Casaba, and the flavor is very sweet. The rind is thin and is of a yellowish green color with darker blotches. When ripe the fruit averages 7 or 8 lbs. Market gardeners are recommended to grow this for local trade. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.



**Culture** In general the culture for Casabas is the same as 15th until June 15th. In furrows 8 feet apart. For Casabas may be taken from the vine as soon as they lose of such varieties as the Pineapple and Golden Beauty will give slightly under pressure of the thumb. The Improved Hybrid in particular is not at its best until quite an impression can be made with the thumb as in a mellow apple. The best way to keep the Casaba late into the Fall is to gather them together in completely with the vines. They should be planted about 8 feet apart each way and it requires about one pound of seed for an acre.

**A & M Hybrid** A cross between the Winter Pineapple and the Montreal Muskmelon. It grows to a very large size and is of delicious flavor. It is a rampant grower and yields enormously; as many as seventeen large melons were taken from one vine. It is profitable early and late. This melon is now grown as extensively for a midsummer crop as the muskmelon, and finds a ready sale. Plant from March 1st until July 15th. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (lb. \$2.50) postpaid.

**Golden Hybrid** Just as the green Pineapple Casaba changed to the bright yellow Golden Beauty, so did the large green Hybrid Casaba change to the Golden Hybrid which we introduced in 1917. At that time we stated that it would in a few years supersede the Green Hybrid. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

**Winter Pineapple** This is the first of Casabas introduced into America. We have carefully maintained the purity of type so that it is now just as distinct as when introduced more than forty years ago. This and the Golden Beauty are identical in all except color, which when mature is light green. The Winter Pineapple is more profitable as a late melon, therefore we recommend to growers near the Coast that it be planted during June. (Pkt. 10c) (oz. 20c) (¼ lb. 70c) (lb. \$2.00) postpaid.

**A & M Honey Dew** This melon has won its way in to favor wholly because of its excellent flavor and good keeping qualities. It is enormously prolific. It is ready to pull when the green luster has changed toward a creamy yellow. It is not ready to be eaten until like the Casaba, you can make an impression with the thumb as in a mellow apple.

Flesh is light green and sweet as honey. The rind is light green or silvery-gray in color, smooth as an egg and hard as the rind of a winter squash. It is therefore a good shipper. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

**Yellow Fleshed Honey Dew** When the Honey Dewed it quickly became popular. One would not believe another melon could be better, but the Honey Dew is better than any. The Tip Top produced a melon of the same outside appearance as the Honey Dew but with a deep yellow flesh that is positively more delicious. Do not hesitate to plant it if for the home garden or for shipping. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

### A & M Casabas

For melon. Plant Casabas according to locality, from February late shipping many are planted from June 1st to July 15th. The green luster, but should not be eaten until the rind and Tip Top produced a melon of the same outside appearance as the Honey Dew but with a deep yellow flesh that is positively more delicious. Do not hesitate to plant it if for the home garden or for shipping. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.



### Golden Beauty

Introduced by us in 1906, it at once became popular locally. It is now grown more extensively throughout California than any other Casaba because of its beautiful appearance, and delicious flavor. Distributors also prefer it as it stands up well after long journeys in carload shipments. Where a melon is required for fall or late consumption this variety is planted more than any other. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

**Santa Claus** As the name implies, this variety is recommended for planting in June or July for gathering in the fall and holding for consumption in December and January. It is a fairly good keeper when stored in a cool ventilated place and care being taken that the fruits do not touch one another. It is a delightful present to send to your Eastern friends at Christmas. It is of delicious flavor, beautiful in its mottled gold and black coloring. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

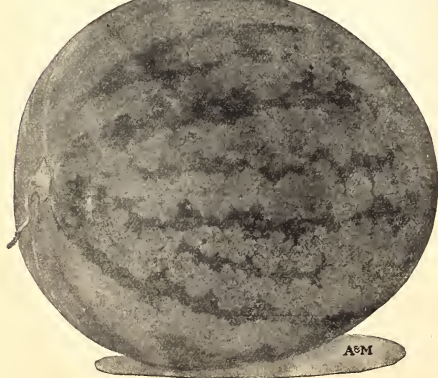
## A & M Watermelons

We grow every pound of our Watermelon Seed and field roguing is conducted under the most stringent rules. One percent off type melons in the seed field will mean ten percent off type for the grower; therefore, we are careful to take out every vine that is producing melons the least bit off in shape, color, or size. Search where you will, you will find no better melon seeds than we offer. In fact, we probably supply the most critical trade in the country—the large growers of the Imperial Valley and other watermelon producing sections of the great southwest, where melons are produced for shipment to outside territory.

**Culture** Generally speaking, the same cultural directions for muskmelons apply also to watermelons. Plant the seed in furrows, dropping ten seeds every eight or ten feet apart; cover about one inch. The furrows should be eight feet apart. When the plants are established, thin out, leaving two vines to the hill. Plant 1 to 1½ lbs. of seed to the acre.

**Black Seeded Chilian** Most every California knows the Chilian Melon and those who do not know it in California or elsewhere have missed a real treat in melons. Its thin rind and delicious flavor make it one of the best home garden varieties. Our strain of seed produces a good shipping melon and one that is a favorite not only with the grower but with the dealer. It is very prolific and a most desirable size for market. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

**White Seeded Chilian** Just as much to be desired as the black seeded, except to those who prefer the black seed. A Chilian is good regardless of the color of the seed, but the black seeded one is planted for the early crop. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.



Black Seeded Chilian





## A & M Klondike Watermelon

**The Genuine Strain** A & M Klondike Watermelon is without doubt the most popular melon in the State of California. We introduced the Klondike in 1909 and naturally we are very proud of its present reputation. The Imperial Valley alone grows several thousand acres of them for shipment to outside territory and they are always the first melon to arrive on the Los Angeles market. The meat is a rich, bright red and very appetizing. Vendors along the boulevards always cut a Klondike when they wish to attract customers. The rind is thick enough to protect the melon in shipping and yet it is not a thick, heavy rind like many varieties. If you are planting for market or for home consumption you will not go wrong by planting the Klondike. The genuine A & M strain is put up in sealed bags for your protection. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (1 lb. \$2.50) (5 lbs. \$11.00) (10 lbs. \$20.00) postpaid.

**Black Seeded Angeleno** This is another triumph for Aggeler and Musser Seed Company. We hybridized the original white seed Angeleno with Black Seeded Chilian and got the desired results the first season. It required but two years more to perfect the type. The flavor was also improved. As a shipper it is extraordinary because it rarely breaks, even supporting the weight of a man weighing 170 pounds. A carload will average in weight from 25 to 30 pounds to the melon. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) (5 lbs. \$6.50) (10 lbs. \$11.50) postpaid.

**White Seeded Angeleno** The most attractive in appearance of all watermelons—its large size, beautiful dark green rind with a tinge of gold showing through the green. No other variety compares with the Angeleno in its bright red flesh, red to the rind, and it is entirely free from fibre. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) (5 lbs. \$6.50) (10 lbs. \$11.50).

**Excel** To the grower and shipper who wants a large melon the Excel fills the bill. It is oblong, dark green with a suspicion of a stripe, and will average 35 lbs. and is of excellent flavor. It is a good shipper and has maintained its popularity for many years. Our seed is from our own growing and is true to type. (Pkt. 10c) (oz. 20c) (¼ lb. 40c) (lb. \$1.25) postpaid.

### Kleckley Sweet

This is an excellent melon either for the home garden or for shipping. It is of medium size, a very green rind, with deep red flesh of delicious flavor. Kleckley's is planted quite extensively in the Salt River Valley of Arizona and other southern districts. (Pkt. 10c) (oz. 20c) (¼ lb. 40c) (lb. \$1.25) postpaid.

### Florida Favorite

This melon is very popular with shippers, because of its extreme earliness, and all round good qualities as a good shipper. In appearance it is similar to the Rattlesnake, the rind being considerably darker. (Pkt. 10c) (oz. 20c) (¼ lb. 40c) (lb. \$1.25) postpaid.

**Tom Watson** has for several seasons been the most popular melon in the South. Its shape is similar to the Kleckley Sweet, but the color is a lighter green. Its great merit is in its earliness, good flavor, thin rind, and good keeping qualities, making it one of the best of shippers. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

**Rattlesnake** Has long been a popular melon with shippers. It is a long melon, having a white rind, with dark green stripes. Flesh of excellent flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 40c) (lb. \$1.25) postpaid.

**Yellow-Fleshed Ice Cream** This melon grows a very large size, is long in shape and the rind an even dark green. In quality it is simply delicious, sugary and of a rich flavor peculiar to itself. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

**Winter Melon** This melon is slowly but surely forcing itself into favor because of the Casaba is apart from the Cantaloupe and just as delicious. Like the Casaba it should not be eaten right off the vine, but be allowed to lie around until the first signs of decay. It decays slowly like an apple, not like other watermelons. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

### Citron Large Green Striped

Weighs from thirty to sixty lbs. Is better than pumpkin for stock. Allowed to lay in field or piled in the barnyard will not be damaged by frost nor decay until the following summer. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

### Preserving Citron

Red Seeded, small round melon. This melon with a proper portion of lemon makes an excellent preserve that is as good as marmalade. (Pkt. 10c) (oz. 20c) (¼ lb. 40c) (lb. \$1.25) postpaid.



A & M Winter Melon, also King and Queen

# A & M Onions

Two A & M Super Fine

Strains of Onion—Grown from Coast to Coast



**A&M**

A & M Riverside Sweet Spanish Onion

A & M White Sweet Spanish Onion

## A & M RIVERSIDE SWEET SPANISH

A & M Riverside Sweet Spanish Onion is a separate and distinct strain of the original imported sweet Spanish onion and was developed by us a few years ago. By careful plant selection we have each year improved the type until the A & M Riverside Sweet Spanish Onion is recognized by best authorities as superior to all other strains in flavor, mildness, good keeping qualities and yield per acre. This onion is very popular and commands the highest market price.

It is a large, well shaped brown onion weighing from 1 to 3 pounds. It is unusually mild but still retains its genuine onion flavor. Planted at the proper time and thoroughly cured it is a good keeper and will ship as good as any other shipping onion. It requires about 2 pounds of seed to plant one acre, if planting is made directly in the field, this being the system mostly used in California. For best results sow November-December; however it may also be planted in the spring. Planting in the seed bed for transplanting requires about 1½ lbs. of seed per acre. In irrigated districts plant in double rows on ridges, having the rows on the ridges about 8 inches apart and 24 inches between the double rows. The size of the onion can be regulated by the distance between onions and the closer they are together the smaller will be the onion. To produce the larger size they should be thinned to 6 or 8 inches between plants. It is important to keep a uniform moisture content in the soil and to keep them growing continuously from the time they are up until harvested. Drying off from lack of moisture may start new buds and may result in splits or goose-necks. Reported yields are from 50,000 pounds to more than 100,000 pounds per acre. Packed in specially branded and sealed bags. (Pkt. 10c) (oz. 75c) (¼ lb. \$2.50) (1 lb. \$7.50) post paid. No onion sets of this variety.

## A & M WHITE SWEET SPANISH

In flavor, uniformity and mildness this new onion is just as good as the now famous A & M Riverside Sweet Spanish. It is a good keeper, good shipper and the pure white skin is of course most desirable. Many letters of recommendation have come to us from all parts of the country indicating that it may be successfully grown in any soil where other onions are being produced. Many growers and dealers are trying to imitate the A & M Riverside Sweet Spanish and the A & M White Sweet Spanish and we have found in many cases where growers have been disappointed in their crops because the seed they planted was not the true variety. These two onions are genuine A & M introductions and they are not some other variety renamed. The seed crops are grown under our personal supervision so that we are in a position to furnish true type stock without any danger of mixture. For your protection as well as ours, the seed of these is packed in specially printed and sealed bags. (Pkt. 15c) (oz. 75c) (¼ lb. \$2.50) (lb. \$7.50) postpaid

Last February I planted one regular 10c packet of your Riverside Sweet Spanish Onion seed in sandy loam, soil that had grown Whip-poor-will Cow Peas the season before. In October I harvested 150 lbs. of Onions, the largest being 5½ inches in diameter and weighing 42 ozs. Many of them weighed more than 2 lbs. each. They are the finest, juiciest and sweetest onions I ever ate, and what we have not used are keeping perfectly so far.

T. K., San Diego.

I tried your Riverside Sweet Spanish Onion this year and will say for size and quality they cannot be beaten. Would like to try some more of your seeds.

C. G. R., Richmond, Calif.



## A & M Onions—Continued

**Culture** No crop is so liable to variations by cultivation and soil as the onion. Having rich soil with too much irrigation will produce thick-necked scallions, while the same soil, well drained, would produce the finest onions. A sandy loam well fertilized is best.

No vegetable is so sensitive to variations of climate as the onion. It is of utmost importance that the right variety is selected for each month in the year, and for your particular climatic conditions.

Irrigate in the furrow between the ridges to avoid flooding the onion, which causes the onion to rot readily, rendering it unfit to ship or to keep.

Two pounds of seed are required to plant one acre for dry mature onions. One ounce will plant one hundred feet of row. For bunching onions, plant one-fourth pound of seed to 100 feet of row or 10 lbs. per acre.

We claim our onion seed to be the highest type as to germination and purity. When you wish to plant onions consult us as to when, how and what variety to plant.

**Australian Brown** Quick to mature; a good keeper; solid and heavy; an excellent onion for shipping. The skin is a light brown. Its solidity gives it great weight and a sack weighs several pounds heavier than a sack of many other kinds. The onions are thin-necked and ripen very early in all soils. As the plant makes a very quick growth it matures the bulbs before the hot, dry summer weather sets in, and this in connection with the exceptional keeping qualities makes it a most profitable variety. (Pkt. 10c) (oz. 20c) (¼ lb. 70c) (lb. \$2.00) postpaid.

**White Portugal, or Silverskin** A good second onion to follow the Extra Early White Queen. It should be planted any time from November 1st until April 1st. It is a good keeper and desired for shipping. Under good cultivation the average diameter is from four to six inches. The thick skin is a clear silvery white, flesh snow-white, sweet and tender. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.

**Southport White Globe** There is an increasing demand for white onions and this variety is very popular being used extensively for shipping purposes. It is a good keeper, either in the field or in cold storage. It is silvery white in color, globe shaped, and of delicious flavor. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00).



## A & M Bunching Onion

Selected especially for market gardeners who are growing onions for bunching.

Many think any white onion will do for a bunching onion, but this is not true. Our growers for fancy trade have learned that we have the best strain of seed for this purpose, and our sales amount to thousands of lbs. each year. The picture shows a sample of what our seeds produce. They are just the right shape. (Pkt. 10c) (oz. 35c) (¼ lb. \$1.20) (lb. \$3.50) postpaid.

**Red Bermuda** In shape, like the White Bermuda, color a pale red.

Planted during January matures latter part of June. No other onion is ready for use so quickly after planting seed. It is the right onion for the home garden. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.

**Red Wethersfield** Probably the most popular red largely throughout the United States than any other. It is a large medium flat onion of excellent mild flavor. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (lb. \$2.50) postpaid.

**The Italian Red Bottle** Onion is as popular in some sections of Northern California as is the Sweet Spanish Onion in Southern California. It grows as large, weighing 3 to 4 pounds and has a similar sweet, non-pungent flavor.

Whether you grow for the local market or in the home garden, you will make no mistake in planting this onion. Any consumer who once having eaten them will want more. (Pkt. 10c) (oz. 60c) (¼ lb. \$2.00) (lb. \$6.00).

## A & M Onion Sets

The earliest onions are grown from sets planted in September. This brings them in the market in February and March, when prices are highest. About 250 lbs. of sets will plant one acre.

State whether you wish white sets or yellow. We have no sets of the Riverside Sweet Spanish.

For the home garden no vegetable is so valuable as the onion, and for this purpose it is better to plant sets, because they are ready for the table six weeks after planting. Set them three inches apart in rows six inches apart. When ready for use, take up every other one as needed, allowing the balance to grow to mature size. One pound of sets will plant about fifty feet of row. (Lb. 40c) postpaid) (10 lbs. \$3.50 postpaid). Write for quantity prices.



The proper way to grow Onions is on ridges



Crystal Wax

**Crystal Wax** The Crystal Wax is a medium sized pure waxy white onion and is one of the mildest sorts grown. The seed of this variety is generally sown in seed beds and the plants transplanted to the field when they are five or six inches high. Planted the latter part of September, they mature in March and April and usually bring the highest market price. It is grown extensively in Southern California and Texas. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.

**Extra Early White Queen** This is one of the best onions to plant for early production in Southern California. Planted during August and September it attains marketable size in March and April and is sold on the local market as early as the Bermuda. Local growers market them while quite young, cutting the top off close to the onion. They harvest only what can be sold from day to day. This practice is very profitable for the reason you are selling a green onion at the price of the early dry onion. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.

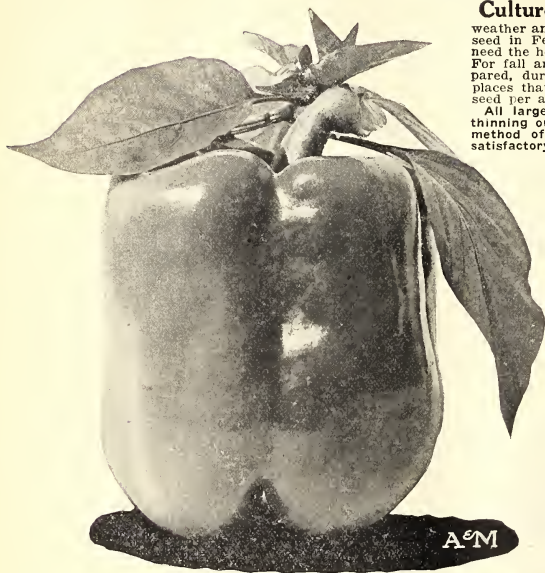
**Yellow Bermuda** This variety goes hand in hand with the Crystal Wax and should be given the same culture. It is about the same size as the Crystal Wax but is a yellow straw color and is slightly better for shipping over long distances. Our seed is a heavy producer and there will be very few off colored onions. (Pkt. 10c) (oz. 30c) (¼ lb. \$1.00) (lb. \$3.00) postpaid.

**Yellow Globe Danvers** The shape is almost globe form and the bulbs are quite large with thin necks. The skin is a straw yellow, while the flesh is pure white, solid and of good quality. Its earliness makes it valuable for market. The crop is very uniform and ripens at one time. (Pkt. 10c) (oz. 30c) (¼ lb. 90c) (lb. \$2.75) postpaid.

**Prizetaker** A large Yellow Globe Onion of finest flavor, handsome shape and enormous size, many single onions having been raised to weigh three pounds or over. The Prizetaker grows always to a perfect globe shape with a bright straw color. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (lb. \$2.50) postpaid.



# A & M Peppers



A &amp; M Wonder Bell

**Culture** For early green peppers, sow seed in hot beds in December and January. Transplant as soon as weather and soil in your locality will permit. For main crop sow seed in February, March and April, in hot bed. Pepper seeds need the heat of a hot bed to germinate it during these months. For fall and winter crop sow seed in out-door beds well prepared, during May and June. Winter crops can be grown in places that are entirely frostless. Sow at the rate of 6 ozs. of seed per acre.

All large growers are now planting seed in the fields and thinning out. This does away with the expensive and tedious method of raising plants and transplanting, and is proving satisfactory.

For field culture the plants are set eighteen inches apart in rows 3 to 4 feet apart.

## A & M Wonder Bell Pepper

In size these superb peppers average 4 inches in length and  $3\frac{1}{2}$  inches in diameter, with a very slight taper, making them almost square. The weight is approximately 9 ozs., which is considerably heavier than any other pepper of the same size. This additional weight is due to the thick walls which are very meaty, being  $\frac{1}{4}$  to  $\frac{1}{2}$  inches in thickness. Because of the shape they pack well for shipping and being solid will not wilt in transit. The rich, deep green skin is smooth and glossy. This variety is also excellent for the home garden and when used for salad purposes, for stuffing or otherwise, will please the most critical. We have specialized in peppers for a number of years and consider this one of the most important introductions of recent times. (Pkt. 10c) (oz. \$1.20) ( $\frac{1}{4}$  lb. \$4.00) (lb. \$12.00) postpaid.

**A & M Chinese Giant** There is probably no better one we have and since we have given particular attention to selection for uniform shape, we think we have the finest strain for shipping purposes. The sidewalls are thick and where they are given proper cultivation the yield is enormous. (Pkt. 10c) (oz. 80c) ( $\frac{1}{4}$  lb. \$2.65) (lb. \$8.00) postpaid.

**A & M Pimiento** Every home garden should have a row of this Pimiento. For salad parboil it to remove the skin. Stuffed and baked it is far superior to all other peppers. (Pkt. 10c) (oz. 60c) ( $\frac{1}{4}$  lb. \$2.00) (lb. \$6.00) postpaid.

**Salad Pimiento** Thick, firm meat of mild flavor. Color bright red. It is a little more flat than a Pimiento and is perfectly smooth from stem to blossom. The size is about one to  $\frac{3}{4}$  inches, 2 inches in diameter and is a convenient size for canning. (Pkt. 10c) (oz. 75c) ( $\frac{1}{4}$  lb. \$2.50)

**Bell or Bull Nose** Do not confuse this with the Chinese Giant. It is similar in shape but scarcely more than half as large. It is much more prolific and a very desirable variety for the home garden. (Pkt. 10c) (oz. 60c) ( $\frac{1}{4}$  lb. \$2.00) (lb. \$6.00) postpaid.

**Ruby King** A very satisfactory pepper for the home garden and used to some extent by market gardeners. It bears in profusion, handsome fruit, 4 to 5 inches in length and about 3 inches in diameter. Fruits are a rich, dark green while young, turning ruby red when ripe and the flesh is thick and meaty. (Pkt. 10c) (oz. 60c) ( $\frac{1}{4}$  lb. \$2.00) (lb. \$6.00) postpaid.

*The Tomato and Pepper Seed which I ordered from you in January are the best I have ever planted. I think every seed came up.* C. E. R., Yava, Ariz.

*I am very pleased with your seed as previous lots purchased from you proved exceptionally clean and pure, also maintaining a high percentage in germinating.*

E. F. W., Las Vegas, Nevada.



Floral Gem

## Peppers—Continued



Anaheim Chili

### Anaheim Chili Peppers

This beautiful yellow pepper became popular several years ago. It is 1½ inches in diameter, 1¼ to 3 inches long, delightfully pungent with a flavor quite distinct from other peppers, and commands an independent price. The supply has not yet caught up with the ever-increasing demand. This pepper turns from green to a beautiful waxy yellow. When mature it is red. It is marketed when yellow. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.

### Floral Gem

This beautiful yellow pepper became popular several years ago. It is 1½ inches in diameter, 1¼ to 3 inches long, delightfully pungent with a flavor quite distinct from other peppers, and commands an independent price. The supply has not yet caught up with the ever-increasing demand. This pepper turns from green to a beautiful waxy yellow. When mature it is red. It is marketed when yellow. (Pkt. 10c) (oz. 75c) (¼ lb. \$2.25) (lb. \$8.00) postpaid.

### Spanish Gem

Like the Floral Gem it is very pungent with a flavor that is desired for pickling. In size it will average from ¾ to 1 inch in diameter, and 1 inch to 1½ inches in length. It is marketed when quite yellow. (Pkt. 10c) (oz. 75c) (¼ lb. \$2.25) (lb. \$8.00) postpaid.

### Mexican Chili

In a class by itself on account of its extreme pungency. It is not canned but is used almost exclusively for grinding and sold as cayenne, the trade of which is surprising. Our seed is pure and taken from selected peppers grown far from other varieties. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.

### Cayenne

A long, slim pepper, rather pointed, and pungent. When ripe, a bright red color. Extremely postpaid. (Pkt. 10c) (oz. 80c) (¼ lb. \$2.65) (lb. \$8.00) postpaid.

### Small Chili

This small pepper is ½ inch in diameter, and two to three inches long. Is very pungent and marketed when quite green, although it is also sold when it has become red. It is an old time favorite and finds a market with canners and at scores catering to the Spanish population. (Pkt. 10c) (oz. 80c) postpaid.

### Cherry

A very pungent pepper, round as a cherry, about one inch in diameter, marketed when green. Used largely in pickling and by the foreign trade. There is a profit to the person who will specialize on this and other small pungent peppers. (Pkt. 10c) (oz. 80c) postpaid.

## A & M Okra



White Velvet

A good and healthful vegetable for a summer crop.

**Culture**—Plant seed from April 1st until Aug. 15th. Plant six to ten inches apart in rows three feet apart. One ounce will plant one hundred feet of row.

### A & M Early Greenpod

We have for a long time endeavored to produce an okra that is earlier than the White Velvet, which has long been the popular market variety. We have succeeded by selection, in producing not only an earlier variety, but a much more tender and prolific okra, and have named it A & M Early Greenpod.

It is just the thing for truckers in the Coachella and Imperial Valleys, because it matures in April, fully a month ahead of other varieties; bears continuously until late in the season.

The pods are three to four inches long, deep green in color, and when young are absolutely stringless.

Every early trucker should have this variety. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

### White Velvet

On account of its attractive white color, good flavor and tender pods when quite young, it has long been a favorite variety. (Pkt. 10c) (oz. 50c) (¼ lb. 35c) (lb. \$1.00) postpaid.

### Mammoth Long Pod

We have greatly improved the original strain and now its productiveness is simply wonderful, the pods shooting out from the bottom of the stalk within three inches of the ground, and the whole plant is covered with them to the height of a man's head, five or six feet. Pods are an intense green in color, of unusual length, nine or ten inches, tender, and of good flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

## A & M Peanuts

**READ**—The Peanut is too much neglected. Its various uses are of great economic value. Its value as a food is well known, but few ranchers realize its value as a soil renovator, adding humus and nitrogen. As hog food, there is nothing better. The straw is rich in food value and may be pastured green, cured as hay or ensilage, and the yield of hay is often from two or more tons per acre. It grows on soil that may be too sandy for other crops. Therefore, if you have sandy soil, make it valuable by planting peanuts.

### Virginia Improved

This variety is much superior to the ordinary Peanut, yielding fewer imperfect pods and combining earliness, productiveness and size; yields on ordinary land about 40 sacks to the acre. (Lb. 30c) (10 lbs. \$2.50) postpaid. Write for quantity price.

### Spanish Hulled

This is the small peanut used so largely in confectionery lines, sold as a crop than the Virginia. They grow in small compact bunch on a small vine and are easily harvested. Plant 40 to 50 pounds of hulled nuts per acre in furrows 4 to 6 inches deep and about one foot apart in the rows, with the rows far enough apart to allow for harsh cultivation. (Lb. 35c) (10 lbs. \$3.00) postpaid.

Ask for Peanut circular.



# A & M Potatoes

**Culture** Plant potatoes deeper in sandy soil than in heavier ground, a good average depth being 5 inches. They should be spaced 14 inches apart in the rows with the rows 30 inches apart. When dividing tubers for planting do not cut the pieces too small. Each piece should be at least one cubic inch and have at least two eyes. Better results will be obtained if the cut surface is allowed to dry or heal for 24 hours before planting, and some growers make a practice of dusting with sulphur or lime. Plant 600 pounds per acre for the spring crop and 800 to 900 lbs. per acre for early crops when potatoes are dug small.

If potatoes follow alfalfa or melilotus, good yields can usually be obtained without the use of commercial fertilizer, but A & M Special Potato Fertilizer listed below will be found profitable. Keep the soil moist at all times. Do not judge moisture by the appearance of the plants as when they become dark green or begin to turn yellow it is then too late to apply water for best results. It is advisable to cultivate often to conserve moisture and keep down weeds. When cultivating, throw the earth toward the plants a little higher each time until at the last cultivation the ridges are six to ten inches high and broad in proportion so the tubers will be kept cool and free from tuber moth infection.

**Potato Inspection** All seed potatoes are subject to rigorous inspection by County Horticultural authorities, thus ensuring great protection to the grower.

**Prices** As market conditions vary considerably, we invite you to write for prices, stating quantity required and we will be pleased to quote lowest prices in conformity with our high standard of quality.



Early White Rose

**Early White Rose** The most popular potato for Southern California is undoubtedly Early White Rose, for the reason that for many years it has proven more satisfactory under varied conditions than other varieties. It is not particular as to soil. It matures quickly, making it a good variety to grow without irrigation and it is out of the ground before nematode and other enemies have done great injury. Because of its earliness it costs less to grow. In stock December 1st to May. (5 lbs. 40c) (10 lbs. 75c) (25 lbs. \$1.35) f. o. b. Los Angeles. Write for quantity prices.

**Early Red Rose** This variety is generally cooked whole when quite young and is therefore very desirable for the home garden and for market lug box business, where there is a demand for new potatoes. Red potatoes do not have a ready sale in sack trade. Plant during December, January and February. (5 lbs. 40c) (10 lbs. 75c) (25 lbs. \$1.35) f. o. b. Los Angeles. Write for quantity prices.

**British Queen** Especially profitable to grow for a fall crop as it stands drought and cool weather better than other sorts. Hundreds of acres are planted during the fall months on the hillsides along the coast and in other parts of the State. Our stock is grown and graded for seed purposes and we are thus in a position to furnish high grade seed. In stock October to February 1st. (5 lbs. 40c) (10 lbs. 75c) (25 lbs. \$1.35) f. o. b. Los Angeles. Write for quantity prices.

## A & M Parsnips

**Culture** The seed of parsnips should be sown during the fall and winter months in Southern California and similar climates. It requires about one ounce of seed to plant a 100 ft. row and about 5 lbs. per acre. Do not apply manure soon before planting, for it tends to make coarse roots of uneven shape.

**A & M Hollow Crown** This variety is in general use for both table and stock feeding. The color is pure white, it is uniformly smooth and is of good texture and flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

**A & M Special Potato Fertilizer** Prepared especially for potatoes. (\$4.75 per 100 lbs.) f. o. b. Los Angeles. Write for quantity price.

## DIP TREATMENT OF POTATOES

To growers who wish to disinfect potatoes before planting, we highly recommend SEMESAN BEL, a preparation designed specifically to furnish an easy, rapid and simple method of seed potato disinfection. Semesan Bel dries quickly on the seed forming a thin coating of disinfectant. Surface-borne organisms of rhizoctonia, scab and black leg are usually destroyed. The treatment also frequently promotes more uniform germination of seed pieces and often improves the stand and the vigor of the plants. Semesan Bel readily mixes with cold water. One pound will make 10 quarts of dip and will treat approximately 1,200 lbs. of whole or large seed pieces and about 850 lbs. of small or cut seed. PRICES—(4 oz. tin 50c) (1 lb. tin \$1.75) (5 lb. tin \$8.00) (25 lb. pail \$21.25) f. o. b. Los Angeles. Cannot be mailed. (Write for descriptive circular.)

**French Half Long** There is a great demand for this Parsnip because it has all of the good qualities of other parsnips and only grows about one-half as long. It is easily harvested, is of good quality, being tender and crisp at all times. It is very desirable particularly for heavy soils and is a good home garden variety because it is easily dug. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

**A & M Devonshire** This Parsnip was recommended to us by our European growers. It is scarcely more than half as long as the Hollow Crown, but it is often three inches in diameter. Tender and has an excellent flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.



# A & M Garden Peas

Market gardeners write for quantity prices on all varieties.

**Culture** Peas are very susceptible to soil and climate. Within the radius of a few miles of Los Angeles and in one locality or another, peas may be grown every month of the year.

In a thermal zone plant peas from September 1st to February 1st, and in lowlands from January 1st to September 1st. In summer months, from May to September, plant two inches deep in heavy soil and deeper in sandy soil. From December to April plant not more than one inch deep. The object of this is to have the seed deep enough to lie in the moist earth, and shallow enough to get warmth from the sun. Never irrigate after planting peas until they come up. Irrigate before planting, but do not plant until the soil is tillable.

Peas will rot in soil that is too wet, especially during the winter months. They will stand a great deal of frost and cold weather until they bloom, but after they bloom a heavy frost will destroy the pods, and if cold enough, will kill the vines. Many planters sow one hundred pounds of seed per acre, but fifty pounds of seed per acre drilled in rows and well cultivated will produce larger pods and more peas per acre; besides, there will be less mildew. If mildew appears, dust with sulphur. Put the rows north and south for winter planting to give them as much sun as possible.

The following varieties are best adapted for planting in the fall in California—Hundredfold, Laxton's Progress, Dwarf Telephone, Laxtonian, Admiral and Stratagem.

**Admiral or Senator** This is one of the favorite varieties in many sections of Southern California and it is becoming more popular each year. It has dark green foliage, large branching vines, bears abundantly and the pods are large and well filled. In favored sections it matures in about twelve weeks from planting. We suggest that commercial growers include a few of these in their order and try them out. Height 2½ feet. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

**American Wonder** The earliest of all wrinkled peas. Of dwarf habit, growing from 9 to 11 inches high, and producing a profusion of good-sized and well-filled pods of the finest flavor. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

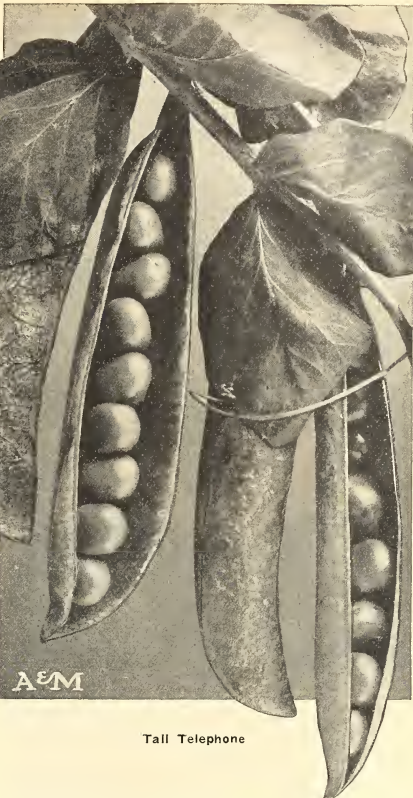
**Dwarf Telephone** Medium tall; pods very large; medium green peas, very sweet; a favorite with shippers because it carries well and commands a high price because of quality. Height 20 inches. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

**Dwarf Gray Sugar** (Edible pods.) Of extraordinary yielding qualities, and unsurpassed as an edible-pod variety. (Pkt. 10c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

**A & M Hundredfold** Plantings of these in the Imperial Valley and other pea producing sections have aroused considerable enthusiasm for the variety. It seems to have all of the good qualities of some of the more popular peas and sufficient acreage was planted this past season to indicate that it stands approved by some of the producers who plant a large acreage. It is dwarf, stands up well, and produces abundantly. The large pods are well filled with highly flavored and sweet peas. Height 18 inches. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (1 lb. 35c) (10 lbs. \$3.00) postpaid.

**A & M Laxtonian** Commercial growers of peas for shipments to eastern markets have learned to depend upon A & M Laxtonian Peas. We sell great quantities of this variety to particular growers who want the best. It is the standard early variety for the west coast of Mexico, Imperial Valley and other large producing districts. In habit of growth it is medium dwarf, bearing pods five to six inches long, and yielding enormously. September plantings in the Imperial Valley are ready for picking in November and in some cases we have known them to be ready for picking within 50 to 55 days after planting. Height 18 inches. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

**Laxton's Progress** Similar type of pea to Laxtonian. The pods are long and also of a dark hue. It is a very desirable variety and has become very popular with market gardeners. For home gardens it is also highly recommended. Height 18 inches. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.



Tall Telephone

**Tall Telephone** Vines vigorous, growing about 4 to 5 feet high, with large, coarse, light-colored leaves and producing an abundance of very large pods filled with immense peas which are tender, sweet, and of excellent flavor. If grown on poles or trellis in the same manner as Kentucky Wonder Beans, more pods are produced and they are larger and brighter in appearance. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

**Nott's Excelsior** Although a few days later than the American Wonder, the pods will average fully one-third larger, containing 6 to 8 large peas, so closely packed together that they become flattened. Height 15 inches. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

**Stratagem** The Stratagem has been a favorite among market gardeners and it is just as good for the home garden as it is for larger acreages. The pods are a dark green color and remain firm several days after picking. It is a strong grower, very prolific, the pods are of good size and are always well filled. The vines usually stand upright, to a height of about 2 feet on good soil and they are very productive. The dark green color of the pod makes it a good seller in all markets and in addition to this the grower is usually rewarded with a good yield. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

**Yorkshire Hero** A very popular market pea in this section. Abundant cropper and excellent in quality. Height 2½ feet. (Pkt. 10c) (Jumbo pkt. 15c) (½ lb. 20c) (lb. 35c) (10 lbs. \$3.00) postpaid.

**NOTE**—For increased yield, inoculate peas before sowing with McQueen's Culture (Dust-Kote).

# A & M Pumpkin

**Culture** Pumpkins delight in rich, sandy soil that is perpetually moist—the soil that retains moisture by the dry farming method, because pumpkins do not want too much water, and to flood them would destroy them, so when irrigating make the furrows nearly as far from the hill as the tip of the vine, and when the vines intersect, run the water through the middle of the row. Plant the seeds every 8 or 10 feet, allowing only one plant to remain, 1 lb. of seed plants an acre.

**Kentucky Field or Large Cheese** This variety is locally called Sweet Pumpkin, and is grown more than any other of its kind for stock, because it is a good keeper, notwithstanding it has a soft shell. It is fleshy and very sweet; also good for pie, and is largely used for canning. On one large ranch in the San Fernando Valley there was planted a large acreage to nearly all the popular varieties; this one was unaffected by the hot sun, and remained in perfect condition while other varieties were sun-burned and decayed quickly. (Pkt. 10c) (¼ lb. 35c) (lb. \$1.00) postpaid.

**Estampes** We have the purest stock seed from which to grow this pumpkin. It is the heaviest pumpkin for its size that we know of; 100 pounds is not an unusual size for them to attain. It is the canner's favorite because of its thick, deep red flesh and the fine sweet flavor. It is without exception the best for dairy stock, and only the scarcity of the seed has prevented it from being more widely known. We are informed by dairy-men that the percentage of butter-fat is increased greatly as the result of feeding this pumpkin. (Pkt. 10c) (¼ lb. 50c) (lb. \$1.50) postpaid.



Sugar, or Boston Pie

**Sugar or Boston Pie** A small handsome variety, and very popular. The skin is a deep orange yellow; flesh fine grained and sweet in taste. Famous in Boston as a pie pumpkin. It sells better on our local market than any other variety except the Jack o' Lantern at Hallowe'en time. (Pkt. 10c) (¼ lb. 50c) (lb. \$1.50) postpaid.

**Sandwich Island** The most popular pumpkin in Ventura County. It is as hardy as a citron. A good one to plant where water is scarce. (Pkt. 10c) (¼ lb. 35c) (lb. \$1.00) postpaid.

**Mammoth King** This is the large pumpkin so well known locally. As many as 20 tons have been taken from one acre. It not infrequently attains a weight of 200 pounds. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

**Japanese Pie** (Green Cushaw) An excellent pumpkin for pies. The flesh is sweet and of a rich salmon color and free from fiber. It is very prolific; on this account it is profitable to grow for stock. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

**Cushaw or Crookneck** This excellent pumpkin ought to be planted more largely. There is more pumpkin for its size because of the small seed cavity. It is excellent for pies, and yields enormously. (Pkt. 10c) (¼ lb. 50c) (lb. \$1.50) postpaid.

**Connecticut Field** (The Jack-o'-Lantern)—This is the pumpkin planted largely for the Hallowe'en and Thanksgiving trade, at which time they bring \$20.00 per ton, and two cents per pound at retail stores. Twenty tons to the acre is no unusual yield. If the land has been manured liberally a full crop can be grown among corn. It is a most excellent keeper, and will be sure wealth to all who grow and feed it liberally. (Pkt. 10c) (¼ lb. 45c) (lb. \$1.25) postpaid.

## Pumpkin Seed for Medicinal Purposes

Pumpkin Seed is oftentimes in demand in the case of certain ailments, the seed being steeped in the same manner as tea. We can offer seed suitable for this purpose. (¼ lb. 35c) (lb. \$1.00) postpaid.



Connecticut Field (Jack-o'-Lantern)

## Gardening Books

The following books are standard and authentic works on Vegetable and Flower cultivation. They were written expressly for California and similar sections by the late Professor E. J. Wickson.

California Garden Flowers, Shrubs, Trees and Vines, each \$2.00, by mail \$2.20.

California Vegetables in Garden and Field, each \$2.50, by mail \$2.70.

# A & M Parsley

**Culture** The seed usually takes 3 to 4 weeks to germinate and it is best to soak it in water about 12 hours before planting. Sow in drills a foot apart and thin plant to 4 inches.

**A & M Champion Moss Curled** An immense acreage of this parsley is grown in Southern California for the local market and for shipping to outside territory. A small plot of this in the garden will furnish garnishing material almost the year around. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

**Plain or Smooth-leaved** This variety has a richer parsley flavor than the curled varieties and should be preferred for the home garden. It is not profitable to the market gardener for the reason that the curled variety will produce much more per acre. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

**Extra Double Curled** A good curled variety for garnishing. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

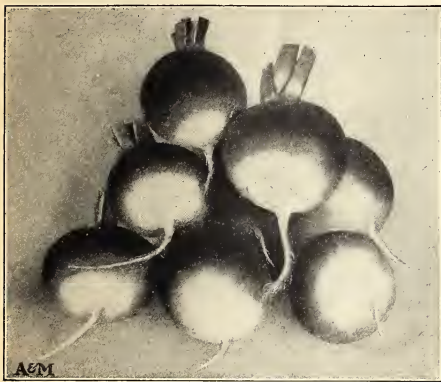
**Hamburg Turnip Rooted** Fleishy vegetable roots for soups, etc. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.



Champion Moss Curled Parsley



# A & M Radish



Scarlet Turnip White Tip

**Culture** Seed may be sown the year 'round in California. Radishes thrive best in light, sandy loam, made rich with manure. Sow in drills 10 inches apart. An ounce of seed will sow a hundred feet of row, 12 pounds to the acre.

**Scarlet Turnip White Tip** An early variety of medium size and excellent flavor and of a very handsome appearance. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) (5 lbs. \$6.00) (10 lbs. \$11.00) postpaid.

**A & M Sparkler** This variety shows much more white than the Scarlet Turnip White Tip. It is very satisfactory for early forcing. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) (5 lbs. \$6.00) (10 lbs. \$11.00) postpaid.

**Early Scarlet Turnip** One of the earliest and best sorts for forcing; its color is very handsome; flavor very mild, crisp and juicy; stands a great amount of heat without becoming pithy. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) (5 lbs. \$6.00) (10 lbs. \$11.00) postpaid.

**French Breakfast** A splendid variety, medium-sized, olive-shaped, very crisp and tender; of a beautiful scarlet color. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

**Crimson Giant** A variety extraordinary in that, while growing to an unusually large size, it is always tender, crisp and of mild flavor. It remains in perfect condition a remarkably long time, and unlike other forcing varieties, does not become pithy; root turnip shaped; color a beautiful crimson; flesh firm and crisp. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

**Long White Icicle** For the home garden we consider this a most excellent table variety. Its extreme earliness, beautiful, pure white appearance, excellent flavor and crispness should make it a favorite everywhere. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) (5 lbs. \$6.00) (10 lbs. \$11.00) postpaid.

**Half Long Scarlet** This variety should be more popular because it is just the right size for table use, not too large, never pithy, but always crisp and sweet. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

**Early Long Scarlet** Very brittle and crisp; color a bright scarlet; small top. Six to eight inches long. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

**Large White Chinese** This is a winter radish of deliciously sweet flavor; can be eaten as a turnip as it is without stringency. The Chinamen use this variety exclusively. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

## Try This

Plant the little round radishes in the same row at the same time with beets or carrots. The radishes will break the way for the beets and carrots and will be ready for pulling by the time they need the room.

**Japanese All Season** It is a large, long, snow-white radish; deeply rooted, does not extend above the soil, hence it always is tender and crisp and has a delicious flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

**Japanese Winter** A half-long white radish more adapted to our winter climate. It compares very favorably with our American varieties, besides it is much larger. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (lb. \$2.50) postpaid.

**Japanese Summer** Its beautiful white color and mammoth size attracts great attention. It is very tender and the flavor is exceedingly mild. It attains perfection in California, growing twenty-six inches in length and three inches in diameter. It is a profitable radish to grow, as it sells readily. It is excellent cooked as a turnip. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (lb. \$2.50) postpaid.

**California Mammoth** Pure white; the flesh is tender, sweet and crisp, keeps well. Plant from September 1st to March. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

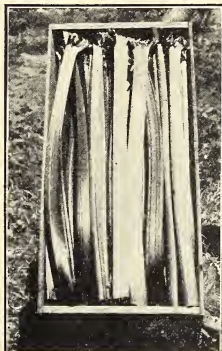
**China Rose** A delicious radish, tendency to become pithy. Skin is a beautiful deep scarlet and flesh pure white. It is a good seller and is in great demand by the vegetable peddlers. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.



All Season

# Rhubarb

A & M CHERRY RHUBARB  
Write for Circular



A & M Cherry Rhubarb  
in boxes 24 inches long

This superb variety was first offered by us in 1925 and proved a sensation wherever grown. Shipments were made all over the country and the demand was beyond all expectation. Growers everywhere are turning to this wonderful variety and we are certain that it will predominate in the market in the near future.

After a lapse of four years during which we have re-established our stock, we are again in a position to offer roots of this peerless strain which is far superior to any we know. Indeed its beautiful cherry red appearance alone makes an instant appeal and in addition to this it is less tart than other sorts. There is no coarse fibre and the stems will keep in marketable condition for several weeks after maturity without becoming soft or pithy, as do most varieties. It grows to a desirable size and rarely runs to seed. Yields are prodigious, 500 40 lb. boxes per acre being the average cutting that may be expected in a warm climate. Four cuttings are usually made per year.

Roots should be planted by hand or by land, the crowns being placed one-half inch deep in heavy soils and one inch deep in sandy loam. Set 2½ feet apart in rows 5 feet apart. Moisture must be kept to surface until plants are established. In districts where frosts would retard the growth it is recommended that planting be deferred until the latter part of February but in warmer locations roots may be set out earlier. Roots 50c each, \$4.85 per doz., postpaid. Not prepaid, \$37.50 per 100, \$350.00 per 1000. We do not offer seed of this variety.

## Giant Winter

**ROOTS**—This variety is very early and is a very desirable sort to grow. 25c each, \$2.50 per doz., postpaid.

**SEED**—Sow seed of Rhubarb any time from February 1 until July 1. Transplant when the roots are as large as a pencil. Within five months of sowing, the plants will bear large stems and grow nearly the entire year. Rhubarb seed will not always produce plants true to type. (Pkt. 10c) (oz. \$1.60) (¼ lb. \$5.00) (lb. \$16.00), postpaid.



# A & M Spinach

Market gardeners write for quantity prices.

**Culture** Sow in drills, one foot apart, and for succession, every two weeks; as it grows, thin out for use, keeping clean of weeds. It grows the year round in California. Sow one ounce of seed for 100 feet of drill, or 12 to 15 pounds to an acre. For field culture, plant level in rows 16 to 18 inches apart. This distance permits easy horse cultivation. Spinach is best adapted to a rich, light loam and is not a satisfactory crop to grow on soils of poor quality or those which will not retain moisture. The climatic requirements of this crop are very exacting. The plants will stand without injury a relatively low degree of temperature, but are seriously injured by heat. Planting late in the spring should be avoided since the plants will not make a satisfactory growth during hot weather. When planted during the rainy season, provided the soil is of a sandy nature and is free from weeds so that it will not pack, the crop may require no cultivation. Spinach does well in some shade and can be grown between trees as well as in the open field. It is ready to harvest in six weeks to two months after planting. The yield per acre varies from three to five tons, with an average production of four tons. (As much as eight tons have been grown.)

**MARKET.**—On the local market there is a uniform demand throughout the year for home consumption, but during the winter months the shipper requires enormous quantities. The canners contract for large acreages each year.

## A & M Special Prickly Winter

Great improvement on the ordinary Prickly Winter. The leaves are of huge size, being thick and broad and the color is a medium green. (Pkt. 10c) (¼ lb. 25c) (lb. 75c) (5 lbs. \$3.50) postpaid.

**Prickly Seeded Winter** This variety thrives best in the coldest weather. Our strain is the highest type possible and the seed we are offering has proven very satisfactory, especially to market gardeners, as it produces wide thick leaves of dark green color. (Pkt. 10c) (¼ lb. 20c) (lb. 60c) (5 lbs. \$2.75) postpaid.

**Bloomdale** Large green thick crumpled leaves, grows luxuriantly, producing twelve to fifteen tons per acre. Will stand more heat than other varieties. (Pkt. 10c) (¼ lb. 20c) (lb. 60c) (5 lbs. \$2.75) postpaid.

**Broad-Leaved Flanders** Is one of the best varieties for all purposes, and excels others for summer planting. (Pkt. 10c) (¼ lb. 20c) (lb. 60c) (5 lbs. \$2.75) postpaid.

**New Zealand** A spreading vine with numerous branches. One plant will cover an area four feet in diameter. Prefers a partial shady situation, where plenty of moisture is available. The tender tips may be cut every few days and cooked as spinach; it is just as good. One packet of seed is enough for a family garden. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) (5 lbs. \$6.75) postpaid.



A & M

A & M Special Prickly Winter



A & M Special Viroflay

## A & M Special Viroflay

Splendid long standing variety. Produces fine large leaves, very thick and it is altogether a decided advancement in this class of Spinach. (Pkt. 10c) (¼ lb. 25c) (lb. 75c) (5 lbs. \$3.50) postpaid.

**Viroflay** This variety has become popular as an all-round Spinach. It is desired by the grower because it is harder than other varieties and will produce in tonnage per acre more than any of them. The canner and shipper like it because of its large smooth leaves.

The consumer prefers it because it is exceedingly tender and of mild flavor. (Pkt. 10c) (¼ lb. 20c) (lb. 60c) (5 lbs. \$2.75) postpaid.

**A & M Summer Success** For several years we have endeavored to secure a type of Spinach that would prove profitable to grow in summer time, and after several trials this one proved the greatest success. With moist, loamy or peat land the A & M Summer Success will grow leaves 14 inches long. The leaves are very meaty and crisp. (Pkt. 10c) (¼ lb. 25c) (lb. 75c) (5 lbs. \$3.50) postpaid.

## A & M Roselle

**Culture** — Sow seed early in April in the field, four feet apart, in rows six feet apart. Cultivate as Okra. There is an early and a late Roselle. Be sure to get the early variety, because the frost is almost sure to destroy the late variety before it matures. We offer only the early variety.

It is an annual plant that has been sufficiently tested to indicate its great value and to warrant more extended cultivation. The calyx surrounding the seed pod is used as soon as the flower drops for making jelly and jam. The jelly is superior to guava or currant, and labeled as "Queensland Jelly" is shipped from Australia to all parts of Europe. It is easily grown from seed if planted after the ground is warm; grows rapidly, resists drought and is very ornamental. Every home garden should have a row of this ornamental and useful plant. (Pkt. 10c) (oz. 75c) (¼ lb. \$2.50) postpaid.



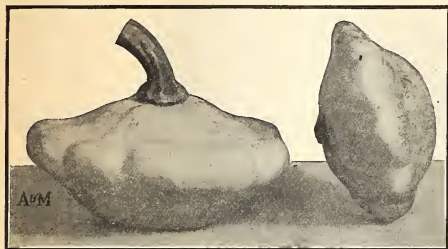
Roselle Buds

# A & M Squash

Market gardeners write for quantity prices.

**Culture** Seed should not be planted until all danger of frost is past. In open ground plant in hills ten feet apart where irrigated, and fifteen feet apart where not irrigated. In orchard plant only one row between trees. When the vine is well along do not flood the hill, but keep the irrigation furrow nearly as far from the hill as the length of the vine. Keep in mind that the roots are longer than the vines. Very early plantings may be protected with Hot Caps. Two pounds of seed plants an acre.

## SUMMER VARIETIES



A & M White Bush Scallop

**A & M White Bush Scallop** The well known summer squash that has been the standard for more than fifty years, and always in demand because of its earliness and delicious flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 40c) (lb. \$1.25) (5 lbs. \$5.75) 10 lbs. \$11.00) postpaid.

**Cocozelle** Differs from Zucchini in that it is marked with heavy dark green stripe. Equal to the White Bush Scallop for the table when taken quite young. It is enormously prolific. When gathered closely the vines will keep bearing continuously all summer, and far into the fall. It survives drouth to a wonderful degree. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (lb. \$2.50) postpaid.

**Long White Marrow** This is exceedingly delicious as English Marrows. Steamed when quite young or dried as egg plant it is equal to egg plant itself. The squash is about 12 inches long when mature, and has a light creamy color. It grows luxuriantly and bears abundantly all summer under very adverse conditions. It will grow, when continuously harvested, more food for hogs than pumpkins. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

**Golden Summer Crookneck** The popular well known Crookneck (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

## Zucchini or Italian

The favorite Italian squash. It should be eaten when quite young, four to six inches long. It is a delicious summer variety; do not hesitate to plant it. It is very prolific, a few hills will suffice to keep the family well supplied the entire summer. It is now more popular on the market than the White Bush Scallop. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.



A & M Zucchini Squash

## WINTER VARIETIES

**A & M Banana** This squash grows from one to two feet in length. Flesh firm and solid of beautiful orange-yellow and excellent quality. It keeps from one season until another. When quite young it is excellent to cook as a marrow. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) (5 lbs. \$7.00) (10 lbs. \$13.00) postpaid.

**Green Warty Hubbard** This variety is grown more largely throughout the United States than any other. It is used in many ways, but mostly for pies. It is a good keeper and because of its hard warty rind, it is the best of shippers. Therefore many acres are grown in Southern California for that purpose, and many more for the bakers, the cannery and family consumption. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) (5 lbs. \$5.75) (10 lbs. \$11.00) postpaid.

**Pike's Peak** An excellent winter squash. Fine grained and superior in flavor and keeping qualities. (Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.50) postpaid.

**Golden Hubbard** The flesh is of a deep golden yellow—a much richer color than the Green Hubbard—fine grained, cooks very dry, and has excellent flavor. (Pkt. 10c) (oz. 20c) (¼ lb. 65c) (lb. \$2.00) postpaid.

**English Cream Marrow or Fordhook Squash** This is a most desirable squash for either summer or winter use. Oblong in form, eight or ten inches in length. If gathered young for cooking it is excellent, while if allowed to ripen on the vine they can be stored and will keep in good condition until late the following June. (Pkt. 10c) (oz. 20c) (¼ lb. 60c) (lb. \$1.75) postpaid.

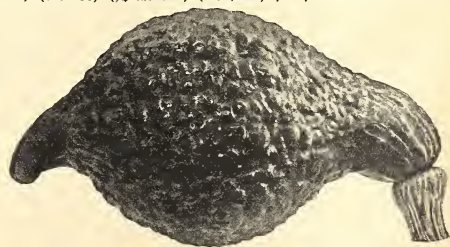
## A & M Salsify

**Culture** Sow the seed in the spring in drills one foot apart and one inch deep, thinning out plants to four inches. It succeeds best in light, well-enriched soil. One ounce of seed for 56 feet of drill.

**Mammoth Sandwich Island** A large and superior variety. Mild and delicately flavored. (Pkt. 10c) (oz. 25c) (¼ lb. 85c) (lb. \$2.50) postpaid.

**Boston Marrow** Flesh, bright orange or rich salmon color; for sweetness and excellence is unsurpassed. (Pkt. 10c) (oz. 20c) (¼ lb. 45c) (lb. \$1.25) postpaid.

**Kitchenette** A small Hubbard Squash reduced in size to about 5 pounds, just right for the average family. One half of a large Hubbard is usually wasted. The Kitchenette is a good seller for the vegetable vender. (Pkt. 10c) (oz. 25c) (¼ lb. 75c) (lb. \$2.00) postpaid.



Green Warty Hubbard

## Tobacco

**Acclimated Havana** For quality this is the very best. (Pkt. 10c) (oz. 50c)

**Pennsylvania Broad-leaf** The best variety to grow in the home garden for use in the chicken house or other insecticide purpose. Also if handled properly makes a good smoking tobacco for the pipe. (Pkt. 10c) (oz. 50c)



# A & M Tomatoes



A & M Marglobe

**Culture** Tomatoes do best on light warm, not over-rich soil, and success depends upon securing a rapid, vigorous and unchecked growth during the early part of the season. Sow in hot-beds from 6 to 8 weeks before they can be set out of doors, which is when danger from frost is past. Use 2 ounces of seed per acre.

Transplant three to six feet apart in rows four to six feet apart, according to variety—three feet for those varieties of upright growth, and six feet is not too far apart for vining varieties which soon cover the ground solidly. The soil should be plowed and pulverized to a depth of ten or twelve inches, the deeper the better, in order that the roots may keep in the cool earth, for as soon as the roots are heated by the hot, dry soil near the surface, the plant quickly sickens and dies, and the grower can see no cause for it.

Many growers are now treating seed with Semesan before sowing. This helps to control diseases and develops sturdier plants.

Root blight may very often be prevented by spraying frequently with Bordeaux Mixture, beginning when the plants are young and continuing throughout the season. A cup full of the liquid Bordo poured around the stem of the plant where it will soak down to the root system is also effective. It is also a good plan to dip the roots in a solution of Bordeaux Mixture when transplanting. Blight may often be prevented, but it is difficult to cure.

The time of planting and variety depend upon your local market, soil and climatic conditions, and the purpose for which they are grown.

On sandy loam soil near the foothills, where it is nearly frostless, we recommend planting seed of the A & M First Early in hot beds during December and January for winter and early spring tomatoes. Tomatoes that mature the latter part of April are considered early for Southern California.

## A & M MARGLOBE TOMATO

A wonderful variety thoroughly recommended for any soil or climatic conditions adaptable to tomato growing. It is a hybrid from Marvel, a government strain; the flesh is red and the very thin outer skin is golden. The red flesh showing through the golden skin produces a rich red color with a tinge of gold showing through. The meat is solid with very few seeds, non-acid, almost a globe shape, size is medium, averaging 7 to 9 ounces in weight, a good shipper, excellent for local market and will probably become one of the leading canning varieties. We have every reason to believe that it is resistant to Fusarium Wilt and Nailhead Rust, and this is one of the greatest things in its favor.

(Pkt. 15c) (oz. 75c) (¼ lb. \$2.50) (lb. \$7.50) postpaid.

**A & M First Early** We introduced this tomato in 1909 and from that time to the present it has superseded all other early varieties throughout Southern California and Mexico and is constantly gaining favor among

the important tomato growers in big producing sections, such as Imperial Valley, Salt River Valley of Arizona and other similar districts. As an early variety and money maker it has no equal among tomato varieties. It is uniform in size and packs well, making it a most desirable tomato for the packer and shipper. It is smooth, inclined to globe shape, of good size, an excellent shipper and bears longer than any other early tomato. During the past year many fields in Southern California were picked continuously from June to November. We cannot recommend it too highly. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.75) (lb. \$5.00) postpaid.

**A & M Globe** This variety has become very popular with the large growers in old Mexico. They have learned that when it has turned from the green to a lighter color with just a suspicion of red it is in prime condition to ship to the farthest market with the least deterioration. It is nearly as round as a globe, produces abundantly and is a delightful table variety, almost without acidity, and is now considered the best shipper for the farthest market. (Pkt. 10c) (oz. 75c) (¼ lb. \$2.50) (lb. \$7.50) postpaid.

## A & M Tomatoes—Continued

**A & M Improved Stone** This is the most popular tomato in Southern California. Several thousand acres are planted to this variety exclusively for shipping to Eastern points after other tomatoes have been destroyed by frost. For this purpose the seed is planted about June 15th, and the tomato brought to full size about October 1st, after which it gradually ripens as wanted for shipping. The tomato is of good size, bright red, solid, smooth, and enormously productive.

The canners prefer it because of its uniformly desirable size and solidity for canning. The grower prefers it because of the vigorous growth and large production extending throughout the season far into the winter months. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.75) (lb. \$5.00) postpaid.

### A & M WILT RESISTANT STONE

This Tomato has proven less susceptible to damage by wilt than any other variety. It has been grown in fields adjoining which were tomatoes that were badly infested with wilt, that made no crop and were finally plowed under, while the A & M WILT RESISTANT grew an excellent crop and was a money maker. It retains all the good qualities of the Stone and has others we feel even better. The tomato is of good size, very solid and makes an excellent shipper. It has topped all eastern market prices the past season. It yields as heavy as the Improved Stone, making it ideal for canning purposes. It has proven its value in Mexico. We can, therefore, recommend it for the canner, the shipper and the market gardener. (Pkt. 10c) (oz. 60c) (¼ lb. \$2.00) (lb. \$6.00) postpaid.

**King of the Earlys** This variety has become very popular for early planting in Coachella and Imperial Valleys for the reason that every blossom produces a tomato, that it matures very early, is smooth, is of fair size, is of good flavor and is a good shipper. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.75) (lb. \$5.00) prepaid.

**Ponderosa** A very large, purple tomato with few seeds and smooth—not of excellent flavor. Our strain is round and smooth like the usual oblong wrinkled kind. Favorite for the home garden. (Pkt. 10c) (oz. 70c) (¼ lb. \$2.35) (lb. \$7.00) postpaid.

**Golden Ponderosa** A very large yellow tomato having a delicious flavor. It is ideal for salads and with a little finely sliced lemon makes excellent preserves. We recommend it for the home garden. (Pkt. 10c) (oz. 75c) (¼ lb. \$2.50) (lb. \$7.50) postpaid.

**Dwarf Stone** (Tree Tomato)—Large, red, smooth and solid. The stalk is upright with dense foliage protecting the fruit from the heat of the sun. It is a desirable tomato to grow in the interior valleys. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.



A & M Improved Stone

**Chalk's Early Jewel** Excellent early tomato for home red, smooth and desirable size. Its mild flavor makes it desirable as a salad. (Pkt. 10c) (oz. 40c) (¼ lb. \$1.35) (lb. \$4.00) postpaid.

**Earliana** The plants are quite hardy, with rather slender branches and moderate growth, well set with fruits, nearly all of which ripen very early in the season. The tomatoes are bright red and close together in clusters of five to eight; all of medium size, averaging 2½ inches in diameter. (Pkt. 10c) (oz. 50c) (¼ lb. \$1.65) (lb. \$5.00) postpaid.

**San Jose Canner** This variety is a favorite with canners for the sole reason of its enormous yield of large tomatoes regardless of shape. We recommend it where tonnage is desired above all else. (Pkt. 10c) (oz. 75c) (¼ lb. \$2.50) (lb. \$7.50) postpaid.

## A & M Turnips

**Culture**—Turnips may be sown broadcast on damp sandy soil or in drills as beets and carrots. Drill in double rows on ridges not too thick in the row. The Purple Top Globe variety is now leading in popularity because of its mild flavor and its adaptability to our summer climate.



Purple Top Globe

**Purple Top Globe** Solid, very sweet, slow to get pithy. The very best variety for the summer season. Indeed the best for any season, but slower to mature than the Strap-Leaf. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

**Snowball** Next to the Purple-Top Globe in popularity, but preferred by many because of its beauty and excellent flavor. It is slow to get pithy in the summer, but always crisp during the winter. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

**Early Purple Top Strap-Leaf** A very popular variety or market use; large size, white, purple above ground, table variety. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

**Golden Ball** A rapid grower of excellent flavor; bright yellow color; good keeper and a superior table variety. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

**Early White Flat Dutch** An early white-fleshed strap-leaved variety; for quick growth, mild flavor and excellent quality. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.

**Purple-Top Rutabaga** The best of the Swede Turnips. Very hardy and productive; flesh yellow, is very solid, sweet and well flavored. (Pkt. 10c) (oz. 20c) (¼ lb. 35c) (lb. \$1.00) postpaid.



## A & M LAWN SEEDS

For Private Lawns, Country Clubs, Golf Links and Public Parks.

The lawn is the finishing touch of the home and once planted it remains indefinitely, therefore, it is important that the proper selection of seed be made in the beginning and thus avoid disappointment. Pure seed of good germination is important and freedom from weed seed is necessary for best results. A & M lawn seeds and mixtures are cleaned thoroughly and are tested for purity and germination. When you plant A & M Lawn Grass Seed you are planting the best that the market affords. Write for Lawn Circular No. 18.



### A & M VELVET LAWN GRASS

Has been used for many years throughout the Southwest with highly satisfactory results. It is a blending of grasses best suited to the variation of temperatures to which the lawn is subjected during the twelve months period. It contains the proper proportion of the best, fine bladed grasses and white clover and when properly planted and cared for will produce a beautiful turf of bright, velvety green color. If you are having your lawn planted by a landscape gardener, insist that he use A & M VELVET LAWN GRASS. It is packed in 1 lb. cartons and in specially branded bags of 5 and 10 lbs. each. It requires 1 lb. of A & M Velvet Lawn Grass Seed to plant a space 10x20 or 200 square feet. This is the least that should be used and a heavier seeding will give quicker results. (1-lb. carton 75c) (5-lb. bag \$3.50) (10-lb. bag \$6.50). Postpaid.

### A & M SHADY LAWN GRASS

In planting the lawn, there are often many places under trees or on the north side of the house and it is quite difficult to obtain satisfactory growth of grass in these shaded places. A & M SHADY LAWN GRASS will grow satisfactory in the shade and will blend in with the other lawn grass. It is a special mixture of fine bladed grasses and will produce an abundant and even growth of beautiful green grass. A & M Shady Lawn Grass may also be used in parks or other places where there is considerable shade from trees. (1 lb. 75c) (5 lbs. \$3.50) (10 lbs. \$6.50). Postpaid.

### A & M KENTUCKY BLUE GRASS

Every bag of our Kentucky Blue Grass Seed is tested for purity and germination. There is positively no guess work about it. You know when you buy A & M KENTUCKY BLUE GRASS SEED that it is high grade in every respect. (1 lb. 65c) (10 lbs. \$6.00). Postpaid. Write for quantity prices.

### A & M WHITE CLOVER

There are many grades of White Clover Seed and A & M is always the best one. We invite comparison of samples, for when they are examined side by side it is very easy to note the difference in quality. A & M White Clover is tested for purity and germination the same as our Kentucky Blue Grass. It may be used to good advantage in reseeded Bermuda Grass Lawns in the fall of the year. (1 lb. 75c) (10 lbs. \$7.00). Postpaid. Write for quantity prices.

### SEASIDE BENT GRASS

(Agrostis Maritima). For those desirous of cultivating a lawn from Bent Grass, there are many varieties available either for propagating from stolens or growing from seed. We do not offer stolens and we find from experience that the best variety of Bent Grass adapted to Southern California for the purpose of producing a lawn from seed is Seaside Bent Grass, which derives its name from the fact that it is grown near the sea shore in Coos County. It is an acid loving grass, requires much moisture to maintain a good sward and when growing at its best helps to hold out the undesirable Bermuda Grass. (1 lb. \$2.75). Postpaid.

AUSTRALIAN RYE GRASS—(Lb. 40c) (10 lbs. \$3.50) postpaid.  
PACEY'S RYE GRASS—(Lb. 45c) (10 lbs. \$3.80) postpaid.  
POA TOP—(Lb. 45c) (10 lbs. \$4.00) postpaid.  
POA TRIVIALIS—(Lb. 75c) (10 lbs. \$7.00) postpaid.  
CHEWINGS FESCUE—(Lb. 45c) (10 lbs. \$4.00) postpaid.

### A & M VELVET FERTILIZER

Used Everywhere With Best Results

Every California gardener should fully realize the necessity for fertilizing. Most growers are inclined to use too small an amount of fertilizer and particularly since it is somewhat difficult to secure barnyard fertilizer, there is too often a tendency to forget the matter entirely. This is a mistake and will often cause disappointment, not only in the lawn, but in the garden as well. A & M VELVET FERTILIZER will give you very satisfactory results and for the new lawn it should be used at the rate of about 100 lbs. to 1,500 square feet and should be raked in before planting. This should be done several days in advance of seeding. For an established lawn broadcast evenly at the rate of 5 to 8 lbs. per 100 sq. ft. and water thoroughly immediately after applying. For roses, use about  $\frac{1}{2}$  to 1 lb. per bush, depending upon the size of the bush; for trees and shrubs use a larger quantity. It will be found beneficial to all plant life and the results are quick and lasting. It is odorless and well balanced for general purposes (25 lb. sack \$1.15) (50 lbs. \$2.10) (100 lbs. \$4.00). F. O. B. Los Angeles.

# Radio Garden Talks

3:00 P. M. Wednesday, each week, by FRED C. McNABB  
from K. H. J., Los Angeles, California

*"The little worlds all set apart  
So loved by many a wistful heart  
Our gardens fair and green and still  
Where lovely flowers their sweetness spill;  
So sweet are they, the soul forgets  
All fear and longing and regrets  
For in these gardens dwelt  
The seeking one finds Peace o' Heart."*

—LYMAN.

The complex life of modern civilization has tended to make us resort more and more to artificial things—not only do we live artificially, more or less, but we take our recreations second-hand, as for instance, in watching others play games, that would far more benefit us, if we ourselves played them. The demands upon us in our daily whirl for existence has stunted our instinctive pleasure in the simple things. We exhaust our nervous system and mental energies, but rarely exercise our bodies sufficiently to give us that degree of bodily tiredness that is so essential to health.

What better, and more easily accessible form of physical exercise can we secure than from our gardens? We Californians are singularly fortunate in that, even those of us living in the more congested towns, have the opportunity of fine lawns and beautiful gardens the year round, and instead of superintending our gardens, as



many of us do, we might better derive real benefit by taking a hand in some, if not all of this work.

In our gardens we can create the beauty that gives us a bond of kinship with nature and of spiritual uplift. What greater joy than to watch a flower or plant come into being from the seeds we ourselves have sown, or the bulbs we ourselves have placed in the ground? The breathless watchfulness of seeing something new arise as a result of our own experimentation, and in spite of possible disappointments, to be ambitiously stirred to continue again and again.

And with the pleasant sense of physical tiredness after an hour, or a day, spent in one's garden, and the sense of joy in having created some beauty, comes the conviction of the poet who said, "Now your garden becomes the highest and most perfect source of purely aesthetic enjoyment."

—FRED C. McNABB.

## Hints on Sowing Seeds

### SOIL PREPARATION

California soils need humus. Humus is decomposing vegetable matter, and many waste materials, such as leaves, weeds, discarded garden plants, etc., may be put to good use by being buried in the garden to decay and provide humus. Humus separates the soil particles, provides a congenial home for bacteria, increases the soil's capacity for absorbing and retaining water, permits a free circulation of air and induces a more rapid and thorough absorption of the sun's rays.

### GERMINATING SMALL SEEDS

Most small flower seeds are more easily germinated when sown in small flats or seed beds. A good rule to follow is to cover the seeds to a depth of about twice the breadth of the seed itself. The covering should be a light material such as screened leaf mold, peat humus, or something similar.

A flat (about 20 inches square by  $3\frac{1}{2}$  to 4 inches deep) may be filled with loamy soil. Firm the soil with a brick or block of wood, leaving a smooth, level surface. Broadcast the seed and press into the soil. Cover as suggested above. Fold a moist burlap sack to fit the flat and place

it on top of the seedbed. This will hold the soil, seed and mulch in place, and prevent washing. Apply water slowly until the seed bed is thoroughly soaked. Place the flat in the shade during the summer months, and in the sun during the winter months. Lift the burlap sack occasionally and at the first sign of germination, remove it. Keep the flat in the shade until all seeds have germinated, then gradually give them sunlight to harden them. Transplant to the open ground when the plants are sufficiently large.

### SEEDS SOWN IN THE OPEN GROUND

Some flower seeds may be sown where the plants are to remain.

Irrigate thoroughly, spade and rake to a level surface. Open a very shallow furrow, perhaps  $\frac{1}{4}$  to 1 inch deep, and drill the seeds in this furrow. Cover to a depth of  $\frac{1}{4}$  inch, firm the soil to the seed, leaving a loose mulch of soil on the surface. Do not apply water until after the seeds have germinated and the plants have shown through the surface.

It is not difficult to grow your own plants and your results will be gratifying.



## Classification of Flower Seeds for Special Purposes

This page is intended to aid you in the selection of your seeds that you may have flowers all the year round, and for every purpose.

### FLOWERING ANNUALS, ALSO SOME PERENNIALS WHICH FLOWER FIRST SEASON FOR SEED

Varieties Marked * Are Best for Beds and		Masses
Abronia	*Chrysanthemum	*Kochia
Acroclinium	(Annual)	*Larkspur
*African Daisy	*Cineraria	*Lavatera
*Ageratum	*Clarkia	*Linum
*Alyssum	Cosmos	Lobelia
*Antirrhinum	Dahlia	Lupinus
Arctotis	Datura	*Marigold
*Asters	*Dianthus	Marvel of Peru
Balsam	*Dimorphothea	Matricaria
*Bartonia	*Eschscholtzia	Matthiola
Bellis	*Gaillardia	Mignonette
Brachycome	*Godekia	Mimulus
Cacalia	Gomphrena	Mirabilis
*Calendula	Gypsophila	Myosotis
*Calliopsis	Helianthus	*Nasturtium
*Candytuft	Helichrysum	Nemesia
Carnation	Hollyhock	Nemophila
*Celosia	(Annual)	Nicotiana
Centaurea	Hunnemannia	Nigella
	Ice Plant	Oenothera

### FRAGRANT FLOWERS

Alyssum	Mignonette
Carnation	Nicotiana Affinis
Clematis Paniculata	Stocks
Dianthus	Sweet Peas
Freessias	Sweet William
Heliotrope	Violet
Matthiola	Wallflower

### EVERLASTING FLOWERS

Ammobium	Helichrysum
Acroclinium	Ornamental Grasse
Gomphrena	Rhodanthe
(Globe Amaranth)	Statice
Gypsophila	Xeranthemum
Paniculata	

### FOR HANGING BASKETS, WINDOW BOXES, etc.

Drizzling	Upright
Alyssum	Coleus
Asparagus Sprengerianum	Geranium
Kenilworth Ivy	Pansy
Lobelia	Viola
Nasturtium	Begonia
Petunia	Ageratum
Smilax	Primulas
Thunbergia	Candytuft

### FOR EDGING AND BORDERS

Ageratum	Lobelia
Alyssum	Marigold (Dwarf)
Asters (Dwarf)	Myosotis
Begonia	Nasturtium
Bellis	Nemophila
Candytuft	Pansy
Centaurea	Phlox Drummondii
Candidissima	Petuna Nana Erecta
Coleus	Pyrethrum
Dianthus	Golden Feather
Dimorphothea	Shasta Daisy
Gomphrena	Sweet Peas Cupid
Kochia	Viola
	Zinnia (Dwarf)

### CLIMBING VINES

Annual	Perennial
Balloon Vine	Ampelopsis
Balsam Apple	Antigonon (Bulbs)
Canary Bird Vine	Asparagus
Cardinal Climber	Australian Pea Vine
Convolvulus	Clematis
Cypress Vine	Coboea Scandens
Japanese Hop	Ipomoea
Hyacinth Bean	Lathyrus
Ipomoea	Moon Vine
Japanese Morning	Mina Lobata
Glory	Phaseolus
Mina Lobata	Smilax
Nasturtium	Wisteria
Scarlet Runner	Cinnamon Vine
Sweet Peas	(Bulbs)
Thunbergia	
Wild Cucumber	

ROCK GARDEN PLANTS—See Page 59

### SOUTHERN CALIFORNIA GARDENING

By Edna Betts Trask  
A Book for Amateurs, written in simple language, giving explicit directions for planting in Southern California. Publisher's price \$1.25 post-paid.

### FLOWERING PERENNIALS

For Permanent Beds and Borders, Many Flowering the First Season

Achillea	Daisy	Lantana	Ricinus
Agathaea	Dahlia	Lupinus	Romneya
Anchusa	Delphinium	Mimulus	Salvia
Aconitum	Dianthus	Myosotis	Scabiosa
A juilegia	Digitalis	Pansy	Shasta Daisy
Begonia	(Foxglove)	Pentstemon	Statice
Bellis	For-Get-Me-Not	Perennial Aster	Stevia
Bidens	Freessia	Petunia	Stocks
Canterbury	Gaillardia	Phlox	Snapdragon
Bells	Geranium	Physotegia	Sweet William
Campanula	Gerbera	Polemonium	Valeriana
Canna	Geum	Poppy	Verbena
Carnation	Gypsophila	Potentilla	Vinca
Centaurea	Heliotrope	Primula	Viola
Candidissima	Hollyhock	Pyrethrum	Wallflower
Coreopsis	Hunnemannia		

### FOR SHADY PLACES

Anemone	Bellis	Scarlet Flax
Antirrhinum	Daisy	Foxglove
Aquilegia	Clarkia	Godekia
Begonia	Cineraria	Mimulus
(Tuberous)	Cyclamen	Myosotis
	Delphinium	Oenothera

### FOR CUT FLOWERS

Acroclinium	Calliopsis	Gerbera	Salpiglossis
Antirrhinum	Celosia	Gypsophila	Salvia
Aquilegia	Centaurea	Hunnemannia	Scabiosa
Asters	Chrysanthemum	Larkspur	Schizanthus
Candytuft	Coreopsis	Lupinus	Statice
Carnation	Cosmos	Marigold	Stevia
Arctotis	Dahlia	Matricaria	Stocks
Bartonia	Daisies	Mignonette	Sunflower
Brachycome	Delphinium	Pentstemon	Sweet Peas
Calendula	Dianthus	Poppies	Zinnias
	Gaillardia	Pyrethrum	

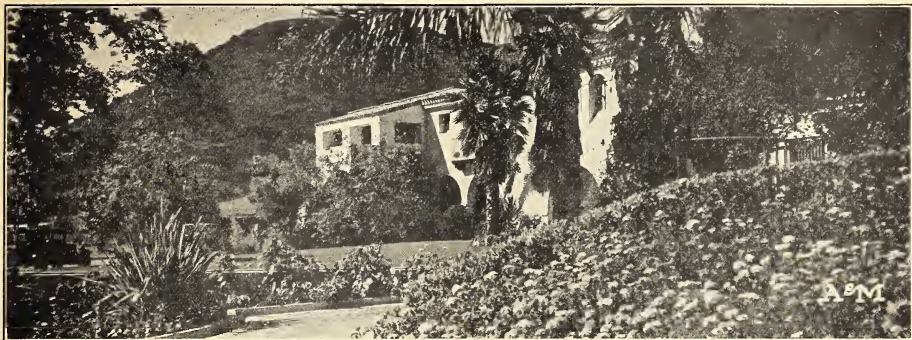
### ORNAMENTAL AND FOLIAGE PLANTS

Amaranthus	Centaurea	Coleus	Pyrethrum
Canna	Candidissima	Kochia	Ricinus
	Cerastium		Stachys

A & M PLANTING CALENDAR—See inside back cover.

# A & M SELECT CALIFORNIA FLOWER SEEDS

## SUPREME IN ALL CLIMES



It is now quite generally known that California is the largest flower seed producing section in North America and that thousands of acres of California land are producing flower seeds to be shipped to all parts of the world. Being in the midst of this production, where we enjoy the privilege of frequent inspections of our own growing crops as well as those of other growers, we have a decided advantage in flower seed selection that enables us to offer our customers the very finest strains of all varieties. A & M California Flower Seeds may be planted in any climate with gratifying results. For the home gardener or the commercial grower they are unexcelled.

### ABRONIA (Sand Verbena)

A hardy annual, trailing in habit, about nine inches high, bearing verbenalike clusters of flowers, which are very fragrant. A native of California. Thrives in dry situations, and is valuable for rock work or hanging baskets. Umbellata—Rosy lilac. Pkt. 10c.

### ACONITUM

#### Monk's Hood

Napellus—Hardy perennial, easily grown and producing long spikes of blue and white flowers. May be planted in partial shade. The seed is slow to germinate. Sow in flats in the spring and transplant. Height 3 to 5 feet. Pkt. 15c.

### ACROCLINIUM

Hardy annual everlasting flowers, white and self pink with golden centers. Should be cut the first day they open.

Double Rosea—Bright pink. Pkt. 10c.  
Double Mixed—Pink and white. Pkt. 10c.

### AGAPANTHUS

A hardy lily bearing clusters of bright blue flowers on stiff stems 3 feet high. Although usually propagated from bulbs it can easily be grown from seed. Per Pkt. 25c.

### AGATHEA

Sometimes referred to as the Blue Marguerite. Plants dwarf and compact, covered throughout a long season with myriads of small Blue Marguerite-like flowers. These are splendid for cutting purposes. Pkt. 10c.

### AMPELOPSIS

Quinquefolia (Virginia Creeper)—A very popular climber. Hardy perennial. Seed may be sown any time of the year. During the summer the foliage is green, changing to various shades of bronzy red during the fall. Pkt. 10c.

Veitchi (Boston Ivy)—A valuable perennial climber which grows rapidly, clinging to brick and wood. The leaves are deep green, changing to scarlet in the fall. Pkt. 10c.

### ANEMONE (Windflower)

Giant French Single Mixed—This lovely flower may be grown from seeds as well as bulbs. Our seed has been saved from an extra fine strain and contains a very choice mixture of colors. The seed may be sown in the fall or spring in seed bed or flats. We suggest that the seed be covered lightly with sand, then spread a thin cloth over the bed and water through this. The plants form bulbs which should be given the culture as recommended in our bulb catalog. Pkt. 25c.

### ACHILLEA

The Pearl—Hardy perennial, producing throughout the summer an abundance of small white flowers. Will bloom first year from early sowings. Excellent cut flower and bouquet filler. Height 2 feet. Pkt. 25c.



Achillea

### ALYSSUM

A fragrant hardy annual having the odor of honey and bearing spikes of small white flowers in great profusion throughout the winter, spring and summer. Without a doubt the best white border plant, is also useful for beds and baskets and will begin to bloom when quite small.

Carpet of Snow—Very compact, growing about three inches high, one plant often having a diameter of 15 inches. Pkt. 10c. 1/4 oz. 25c.

Little Gem—Grows 4 to 6 inches high. One of the finest for low beds and borders. Pkt. 10c. 1/4 oz. 25c.

Sweet White—The tallest of this group, growing 8 to 12 inches. A profuse bloomer. Pkt. 10c. oz. 30c.

Lilac Queen—A delicate lilac (dwarf). Pkt. 10c. 1/4 oz. 25c.

Saxatile Yellow—A perennial variety of pleasing yellow color. Height 1 ft. Pkt 15c. 1/4 oz. 35c.

### AMARANTHUS

Hardy annuals, grown especially for their brilliant foliage.

Caudatus (Love Lies Bleeding)—Light yellowish-green foliage; long, drooping crimson flower spikes. Plants grow three feet high. Pkt. 10c. oz. 30c.

Salicifolius or Willow-leaved—This variety is like the above except that the foliage is fine, giving a drooping, graceful effect. Pkt. 10c. 1/4 oz. 50c.

Tricolor (Joseph's Coat)—The leaves of this variety are green, red and yellow. Pkt. 10c. 1/4 oz. 35c.

### AMMOBIUM

Hardy annual everlasting flowers. Pure white and very double. Pkt. 10c.

### ANAGALLIS

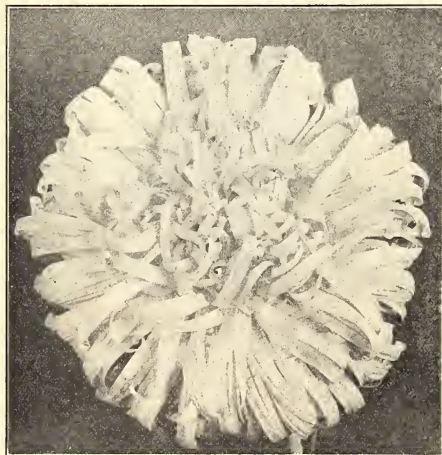
Grandiflora Mixed—Very desirable annual for edging and rock gardens. Height 6 in. Pkt. 10c.



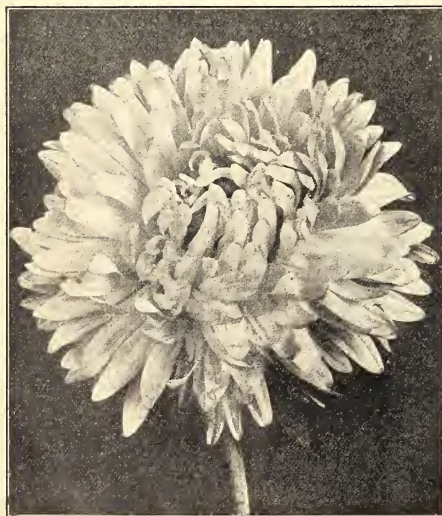
## A & M CALIFORNIA ASTERS

A popular half-hardy annual produced in a great variety of classes, and an almost endless number of colors. The tallest grow about two feet high, and some varieties of dwarfs are not over eight inches high. The best method of culture is to sow the seed during the spring in boxes and transplant when large enough to handle. The seed can be sown, however, in the row where the plants are to remain, thinning them from 6 to 20 inches apart, according to variety.

A & M California Asters are the finest strains and are used extensively by home gardeners and florists throughout the country. We call particular attention to A & M California Giants, A & M American Beauty, A & M Sunshine and A & M King. These are highly satisfactory wherever they are grown.



A & M California Giant Aster



Aster—A & M American Beauty

### A & M CALIFORNIA GIANT ASTERS

A new and most worthy Aster for home gardener or florist. The delicately curled and interlaced petals form large fluffy flowers that are most beautiful. They are produced on long, willowy stems with fine foliage, but few or no side branches, which makes it possible to have large flowers without having to disbud. A & M California Giants are one of our best cutting varieties, their long stems making them particularly desirable for the commercial grower or home gardener.

	Per ¼ Oz.	Per Pkt.
Light Blue—Azure Blue .....	\$1.50	\$.35
Light Purple—Pale Purple .....	1.50	.35
Peach Blossom—Pink .....	1.50	.35
Purple—Deep Purple .....	1.50	.35
Deep Rose—Rich Dark Rose .....	1.50	.35
White—Pure White .....	1.50	.35
A & M Mixed .....	1.00	.35

Collection 5F—One packet each of the above named six new Asters in separate colors, six packets \$1.75.

### AMERICAN BEAUTY ASTERS

(Early Flowering)

This newest type has been developed from the late flowering American Beauty and has all of its characteristics, except that it is much earlier flowering. This makes possible a long flowering season for this splendid variety.

	Per ¼ Oz.	Per Pkt.
Early Azure Fairy—Light blue .....	\$.85	\$.25
Early September Beauty—Orchid, flesh, pink .....	.85	.25
Early Rose .....	.85	.25
Early Crimson .....	.85	.25
Early Peach Blossom .....	.85	.25
Early Carmine Rose .....	.85	.25
Early Purple .....	.85	.25
Early Finest Mixed .....	.80	.25

### AMERICAN BEAUTY ASTERS

(Late Flowering)

This wonderful variety is a recent addition to the popular aster family. It is without doubt one of the grandest. The flowers have in-curved petals and are large and full, often measuring 4 inches across. The plants are of branching habit and the flower stems measure from 15 to 30 inches. The flowers have splendid keeping qualities. We heartily recommend this variety as one which you will be proud to have in your garden. We have a complete list of colors.

	Per ¼ Oz.	Per Pkt.
Azure Fairy—Bright Blue .....	\$.80	\$.25
Peach Blossom—Rose Pink .....	.80	.25
Carmine Rose—Bright Rose .....	.80	.25
Crimson—Very Large .....	.80	.25
Rose—Florists Shade .....	.80	.25
September Beauty—Pink .....	.80	.25
Purple—Deep Purple .....	.80	.25
White Beauty—Pure White .....	.80	.25
A & M Mixed—All Colors .....	.75	.25

Collection 2F—One packet each of the above eight named varieties \$1.65 postpaid.

### KING ASTERS

The flowers of this class of Asters are large and double. The petals are quilled, making them distinct from all others and highly desirable. The plants are of upright habit, growing to a height of from 1½ to 2 feet. The stems are long and willowy, making the variety excellent for cutting purposes.

	Per ¼ oz.	Per Pkt.
Black Blue .....	.55c	15c
Crimson .....	.55c	15c
Rose .....	.55c	15c
Peach Blossom .....	.55c	15c
Lavender .....	.55c	15c
Violet .....	.55c	15c
White .....	.55c	15c
Mixed .....	.50c	15c

COLLECTION NO. 1F—One packet each of the above seven named varieties, 85c.

I am very proud to state that the Stocks, Snapdragons, and Asters I grew from your seeds were wonderful this year. Some of my Asters attained the height of three and one-half feet. Mrs. B. R., Anaheim, Calif.

## A & M SUNSHINE ASTER (Improved Anemone Flowered)

(Late Flowering)

A novel and distinct type of Aster. The outer petals are twisted and quilled and surround a central cluster of florets which are of a contrasting pale color. Wonderful cut flower and makes a striking decoration for large vases. This type of Aster is not yet fully established and will be found to vary in color and form.

Sunshine Blue .....Pkt. 25c    Sunshine Pink.....Pkt. 25c  
Sunshine Lilac.....Pkt. 25c    Sunshine White.....Pkt. 25c  
Sunshine Mixed.....Pkt. 25c    1/4 oz. 90c    Pkt. 25c  
Collection 10F—One packet each of the above four named varieties 85c, postpaid.

## AMERICAN BRANCHING (Late Flowering)

An excellent variety, the plants are 2 1/2 to 3 feet high and have a branching and vigorous growth. The flowers are well formed, being large, double and incurved.

Lavender .....Pkt. 10c    Black Blue .....Pkt. 10c  
Purple .....Pkt. 10c    Deep Rose .....Pkt. 10c  
Peppermint .....Pkt. 10c    Crimson .....Pkt. 10c  
Peach Blossom .....Pkt. 10c    White .....Pkt. 10c  
Sensation Scarlet.....Pkt. 10c    Silvery Rose.....Pkt. 10c  
Separate Colors, 1/4 oz. 55c; Mixed, Pkt. 10c, 1/4 oz. 50c.  
Collection No. 3F—One packet each of the above ten named varieties 85c postpaid.

## OSTRICH FEATHERED ASTERS (Mid-Season Flowering)

Extremely graceful Aster, with large, loose, feathery heads, unrivaled for table decoration, flowers double and semi-double. The branching habit makes this a conspicuous border plant. Height 18 inches.

Crimson .....Pkt. 10c    Light Blue .....Pkt. 10c  
Rose Pink .....Pkt. 10c    White .....Pkt. 10c  
Dark Blue .....Pkt. 10c    Rose .....Pkt. 10c  
Shell Pink .....Pkt. 10c    Mixed .....Pkt. 10c  
Separate Colors, 1/4 oz. 60c. Mixed, 1/4 oz. 55c.  
Collection 4F—One packet each of the above named seven varieties 60c postpaid.

**Queen of the Market** One of the earliest blooming varieties, blossoming frequently in July. Of spreading habit, 12 to 15 inches high. Blossoms medium sized, and the petals curve outward. The best early variety for bedding or edging. Pkt. 10c, 1/4 oz. 45c.

**Giant Branching Comet** The plant grows 24 inches high and about 18 inches in width and the blossoms, which are large and full-petaled, are borne on long stems or branches. Mixed—Pkt. 10c, 1/4 oz. 50c.

**Heart of France** A rich dark red. The richest, most striking color and not to be found in any other aster. The plants grow about 2 feet high and are of a branching habit. Pkt. 25c, 1/4 oz. 80c.

## ASTER COLLECTION NO. 6F

To encourage you to get acquainted with the several fine varieties of A & M Asters we offer a collection of one packet each A & M American Beauty Purple, A & M King White, A & M California Giant Rose, and Heart of France. Four packets in all of choice colors 85c postpaid.

## AGERATUM (Floss Flower)

A hardy annual of easy culture, especially valuable for bedding, as it is literally covered with blossoms all summer. Sow the seed early in the spring, either in boxes to transplant, or out of doors, and thin to four to six inches. Blue Perfection—Deep blue, one foot high. Pkt. 10c.  
Mixed—Pkt. 10c, 1/4 oz. 55c.

## ANCHUSA ITALICA

**Dropmore Variety**—One of the best hardy perennials, growing 3 to 5 ft. high, and having long loose sprays of lovely forget-me-not-like flowers of a rich gentian blue. Is very free flowering, blooming over a long season. Pkt. 10c.

## ARCTOTIS GRANDIS (African Lilac Daisy)

Large pearly white Marguerite-like flower, with delicate mauve center surrounded by a narrow golden band. The whole plant is covered with white down. Half hardy annual. Height 2 feet. Pkt. 10c.

## ARMERIA

**Formosa**—Fine plant for permanent border or rock garden and does well on the sea coast. Flowers rose pink. Height about 9 in. Pkt. 10c.



Single Asters

## SINGLE ASTERS

A & M Single Asters—Single Asters make splendid bedding, border and cut flowers. They resemble daisies, and the flowers keep well in water when cut.

Scarlet .....Pkt. 10c    Apple Blossom .....Pkt. 10c  
Dark Blue .....Pkt. 10c    Rose .....Pkt. 10c  
Lavender .....Pkt. 10c    Mixed .....Pkt. 10c  
1/4 Ounce 30c

## PERENNIAL ASTER

(Michaelmas Daisy)

Single, hardy perennial plant growing to a height of 3 ft. Blooms in the fall and will flower the first year if sown early in the Spring. Mixed, Pkt. 15c.

## ASPARAGUS FERN

**Plumosa**—A tender perennial for green-house or potted plant use, with long, fine, feathery foliage. The sprays when cut, retain their freshness in water from three to four weeks. Seeds start slowly and should be soaked in water before sowing. Pkt. 10c. 100 seeds 50c.

**Sprengeri**—A hardy variety. Used as a pot plant. Suitable in groups of potted flowers or in hanging baskets. Pkt. 10c. 100 seeds 45c.

## AUSTRALIAN PEA VINE (Dolichos Ligmosus)

A rapid growing evergreen climbing perennial, flowering freely in large clusters of rose flowers. For covering arbors, trellises, etc., they have no superior. Pkt. 10c, 1/4 oz. 50c.

## BALLOON VINE

Climbing annual, with small flowers. The seed pods are curiously swelled or puffed and are quite attractive. Pkt. 10c.

## BARTONIA AUREA

A showy California annual. Lovely large golden yellow flowers which glisten like satin in the sunshine. The height is about 18 inches, making them very desirable for bedding and cutting. Pkt. 10c.



Ageratum



## A & M SNAPDRAGONS (Antirrhinum)



Tall Maximum Snapdragons

### Semi-Dwarf Large Flowering

The best for bedding and because of the large flowered compact spike is considered fine for cutting. Height about 18 inches.

Amber Queen—Amber .....	Pkt. 15c
Carmine Queen—Brilliant carmine .....	Pkt. 15c
Climax—Orange shaded scarlet .....	Pkt. 15c
Defiance—Scarlet .....	Pkt. 15c
Empress—Deep crimson .....	Pkt. 15c
Gloria—Deep rose pink .....	Pkt. 15c
Golden Yellow—Deep yellow .....	Pkt. 15c
Pink Perfection—Pink suffused salmon .....	Pkt. 15c
Prima Donna—Shrimp pink, yellow throat .....	Pkt. 15c
Purity—Pure white .....	Pkt. 15c
Rosy Lavender .....	Pkt. 15c
Silver Pink—Delicate pink .....	Pkt. 15c
The above separate colors .....	1/4 oz. 65c
Semi Dwarf mixed .....	Pkt. 10c; 1/4 oz. 25c

## AQUILEGIA (Columbine)

A hardy perennial of graceful habit growing about two feet high. The flowers are attractive and beautifully adapted for cut flowers. They may be successfully grown in partial shade. Fall sown seed will bloom the following spring. If sown in early spring will often flower the same season. Time required for seed to germinate is 12 to 60 days. Sow seeds in flats and transplant.

**Long Spurred Hybrids**—This is the Elliott strain, conceded to be the finest grown. Colors are mixed, stems extra long, fine for cutting. Pkt. 25c.

**Long Spurred Blue Shades**—Large flowers in most charming colors of blue. Pkt. 25c.

**Long Spurred Pink Shades**—Containing a variety of pink to rose shades. Pkt. 25c.

**Collection 7F**—One packet each of the above. Three finest sorts, 70c.

**A & M Long Spurred Mixed**—Profuse blooms of almost every shade, 1/8 oz. \$1.00. Pkt. 25c.

A & M California Snapdragons are the finest strain obtainable. Our fields of these are most beautiful at blooming time and are much admired by all who see them.

Snapdragons are easily grown from seed and may be sown in flats from August to January in Southern California. They may be had in great variety of separate colors or the mixed may be planted for a brilliant array of color.

### Tall Maximum

This is the newest creation in Giant Snapdragons and is far in advance of the older tall type in size and color of flower. Height 4 feet. Greatly in demand for cut flowers.

Apple Blossom—Rosy pink, yellow lip .....	Pkt. 25c
Canary Bird—Canary yellow, golden center .....	Pkt. 25c
Cattleya—Rosy lilac .....	Pkt. 25c
Copper King—Copper scarlet .....	Pkt. 25c
Diamond—Yellow, lilac throat .....	Pkt. 25c
Golden Queen—Deep yellow .....	Pkt. 25c
Indian Summer—Velvety copper .....	Pkt. 25c
Jennie Schneider—Rose pink .....	Pkt. 25c
Marala—Copper carmine, yellow center .....	Pkt. 25c
Old Gold—Deep golden yellow .....	Pkt. 25c
Purple King—Deep purple .....	Pkt. 25c
Rock's White—Finest White .....	Pkt. 25c
Ruby—Velvety ruby red .....	Pkt. 25c
Snowflake—White, yellow tube .....	Pkt. 25c
The Rose—Rose pink .....	Pkt. 25c
Wallflower—Brownish orange .....	Pkt. 25c
The above separate colors .....	1/8 oz. 65c
Finest Mixed .....	Pkt. 25c; 1/4 oz. 60c
Collection 28F—One packet each of seven separate colors .....	\$1.50.

### Tall Large Flowering

This type grows about 3 feet tall, the flowers are large and the flower spikes long. Splendid for cutting and tall borders.

Silver Pink—A delicate silver pink .....	Pkt. 10c
Rose Pink—Bright rose .....	Pkt. 10c
Deep Rose—Coral rose .....	Pkt. 10c
Garnet—A velvety, deep red .....	Pkt. 10c
Scarlet—A velvety, bright red .....	Pkt. 10c
Golden Yellow—(Golden King) .....	Pkt. 10c
Orange Shaded Scarlet .....	Pkt. 10c
White (Queen Victoria)—Pure white .....	Pkt. 10c
The above separate colors .....	1/4 oz. 40c
A & M Rose King—Deep rose .....	Pkt. 15c
Mixed .....	Pkt. 10c; 1/4 oz. 25c



Aquilegia, Long Spurred Hybrids



Balsam—Camella Flowered

### A & M DOUBLE DAISY (Bellis Perennis)

A hardy perennial, blossoming freely all spring and summer. Plant is about four inches high and is valuable for borders.

Extra Double Red—Pkt. 15c.  
Snowball—Pkt. 15c.  
Extra Double Pink—Pkt. 15c.  
Double Mixed—Pkt. 10c.

### BIDENS DAHLIOIDES

Flowers are of a pleasing light pink, fashioned after the single cosmos. Height 2 ft. Although a perennial, will bloom the first year if seed is sown in February. Especially good for cutting purposes. Pkt. 25c.

### A & M CALENDULA

Very hardy annual, one foot high, blooming freely practically the whole year round. It is one of the easiest culture and is desirable for rather inferior soils, where less sturdy flowers do not thrive. Calendulas make one of our finest winter flowers. A hard frost will not hurt them. In fact, the flowers are larger and finer during the winter and spring months.

Radio—A distinct and new form of Calendula. The petals are quilled and of a brilliant orange color; very striking. Pkt. 35c.  
Camp Fire—The blooms are undoubtedly larger than any other type and are a brilliant orange color with a scarlet sheen. Very vigorous grower. Pkt. 25c.

Ball's Orange—Deep glowing orange. Large double flowers. Pkt. 15c, ¼ oz. 50c.

Ball's Gold—Deep golden yellow flowers borne on long stems. Pkt. 15c, ¼ oz. 50c.

Orange King—Bears giant flowers sometimes 3 inches in diameter. Color pure orange. Pkt. 10c, oz. 40c.

Lemon Queen—Like the above, but of pure lemon. Pkt. 10c, oz. 40c.

Collection 9F—One packet each of four above named sorts excluding Camp Fire and Radio. 40c.

Double Mixed—A good mixture. Pkt. 10c, oz. 25c.

### CLARKIA

A hardy annual of easy culture, growing about 18 inches high and flowering in great profusion. Native of California. Seed sown in the fall will give early blossoms in the spring. Seed may also be sown in the spring and summer. Will grow in shade or sun.

Double Brilliant—Bright pink.....Pkt. 10c  
Double Chamois—Pink suffused with cream.....Pkt. 10c  
Double Salmon Queen.....Pkt. 10c  
Double Scarlet.....Pkt. 10c  
Double Mixed.....Pkt. 10c

### BEGONIA

Very attractive flower for both pot and bedding use and should be more extensively grown for shady borders. Perennial Semperflorens Mixed. Pkt. 25c.

Gracilis Luminosa—Large bright, scarlet flowers. Foliage reddish brown. Pkt. 25c.

We are sole distributors of Begonia seed from the famous Rosecroft Begonia Gardens of California where can be seen some of the finest strains in cultivation today. We offer below seed in mixtures, but can supply separate colors also (stock limited).

Tuberous—Single Mixed .....	Pkt. \$1.00
" Double Mixed .....	Pkt. 2.00
" Frilled Mixed .....	Pkt. 1.00
" Crested Mixed .....	Pkt. 1.00
" Narcissiflora Mixed .....	Pkt. 2.00
" Lloydii or Hanging Basket .....	Pkt. 2.00
Bedding Type—Mixed .....	Pkt. 1.00
Rex—Seed collected from 100 varieties .....	Pkt. 2.00

### BALSAM (Touch-Me-Not)

A tender annual, with brittle stems and foliage. Flowers both single and double, in bright colors and variations are wax-like and very attractive. The individual blossoms floating in a dish of water exhibit their beauty to the best advantage.

Improved Double Camella Flowered—In its extraordinary size, perfect form and brilliant colors, this fine strain of balsam surpasses all others. Height 18 inches. Pkt. 15c.

Rose Flowered—Handsome double flowers in form resembling a rose. Height 18 inches, fine mixed. Pkt. 10c.

Spotted—Large semi-double flowers well adapted for borders, fine mixed colors. Pkt. 10c.

### BALSAM APPLE (Momordica)

A climbing annual, growing about 10 feet long. Has graceful and ornamental foliage, yellow flowers and warted golden yellow fruit, with large carmine red seeds. Thrives in hot locations. Pkt. 10c, oz. 75c.

### CACALIA (Tassel Flower)

Coccinea Red—Sometimes called Flora's Paint Brush. An annual of easy culture growing 18 inches high. Desirable border plant and a beautiful subject for table decoration. Pkt. 10c, ¼ oz. 50c.

### CANNA

A perennial growing 3 to 6 feet high. Suitable for bedding and back grounds. Plants have bright flowers and ornamental leaves. Soak seed in tepid water several hours before planting.

Crozy's Varieties—New large-flowered and free blooming variety. Height 3 ft. Mixed. Pkt. 10c.

Good Mixed—Height 5 to 6 ft. Mixed. Pkt. 10c.



Calendula—Radio



**CANDYTUFT UMBELLATA**

This charming annual should be freely planted in all gardens for display or for cutting purposes. The flowers are borne in umbels and when the plant is in full bloom it is indeed beautiful. Beds or borders of solid colors are most attractive and we suggest solid colors further for the reason that when one color is planted in a row or bed the plants are of uniform height, presenting a most pleasing appearance. Local florists find it a most satisfactory cut flower and it is planted quite freely for that purpose. Seed germinates in 5 to 10 days and it may be started in beds or flats and transplanted when several leaves are formed.

White .....	Pkt. 10c	Oz. 40c
Pink .....	Pkt. 10c	Oz. 40c
Crimson .....	Pkt. 10c	Oz. 40c
Flesh Pink .....	Pkt. 10c	Oz. 40c
Lavender .....	Pkt. 10c	Oz. 40c
Rose Cardinal .....	Pkt. 10c	Oz. 60c

Collection 8F—One packet each of the above separate colors 50 cents.

**A & M Umbellata Mixed** ..... Pkt. 10c Oz. 30c  
**Umbellata Hybrida Nana**—Similar to above except that plants are more dwarf and compact. Excellent for borders. Mixed, Pkt. 15c, 1/2 oz. 40c.

**Giant White Hyacinth Flowered**—A giant Candytuft bearing immense snowy white spikes, which often measure 10 inches or more. Don't fail to give this a trial. Pkt. 10c, 1/2 oz. 45c.

**Coronaria Empress**—Large trusses of pure white flowers, one of the finest candytufts yet raised. Pkt. 10c, 1/2 oz. 30c.

**PERENNIAL CANDYTUFT**

(Iberis)

**Gibraltarica**—Plants of dwarf compact habit, growing about 6 inches high. Flowers lilac. Valuable for rock gardens and borders. Pkt. 10c.

**CHEIRANTHUS**

**Allioni**—Perennial bearing gorgeous orange flowers. Height 12-18 inches. Charming in borders and rock gardens. Pkt. 10c.

**Linifolium**—Biennial. Forms compact plant about 9 inches high, suitable for rockeries and small beds. Bright mauve flowers. Pkt. 25c.

**CANARY BIRD FLOWER**

(Tropaedium-Canariense)

A tender, climbing annual of the nasturtium family. Blossoms have curiously winged petals and are light yellow. Pkt. 10c.

**CARDINAL CLIMBER**

A new annual climber of great merit, bearing a mass of small crimson flowers. Height 10 to 15 feet. Pkt. 15c.



Candytuft—Hyacinth Flowered

**CALIFORNIA WINDBREAK**

**Lavatera Assurgentiflora**—This perennial shrub is easily grown from seed, is very drought resistant and makes one of the quickest and best windbreaks known in California. Is used extensively as a windbreak for vegetable gardens and chicken ranches. The first year from seed it will grow to a height of at least 6 feet and flower, the flowers being an attractive shade of red. (10c per pkt.) (50c per oz.) (1/4 lb. \$1.75).

**CERASTIUM**

**Biebersteinii**—Hardy perennial with pretty narrow white foliage. Makes a very effective silver edging, and is also useful for rockeries. Pkt. 15c.



Cheiranthus Allioni

**A & M CANTERBURY BELLS**

**Campanula Medium**—A hardy biennial, blooming the second year from seed, or the first if sown early. Grows about three feet high.

Single Blue .....	Pkt. 10c	Single Rose .....	Pkt. 10c
Single White .....	Pkt. 10c	Single Mixed .....	Pkt. 10c

**Double Mixed** ..... Pkt. 15c  
**Campanula Longistylis**—Flowers blue purple. Height 20 inches. Excellent for rock garden and borders. Pkt. 25c.

**Calycanthemum**—A variety of Canterbury Bells having large semi-double flowers each resembling a cup and saucer.

Calycanthemum Rose .....	Pkt. 15c	Calycanthemum Purple .....	Pkt. 15c
Calycanthemum White .....	Pkt. 15c	Calycanthemum Mixed .....	Pkt. 15c

**CALCEOLARIA**

Although usually grown in greenhouses and lathouses, Calceolarias may be grown outdoors in Southern California and produce a wonderful effect from May to November. The flowers are small, pocket shaped, beautifully tigered or spotted and are borne in great profusion. For best results the seed should be sown in a hot bed or frame during the winter for spring planting out.

Grandiflora Tall Tigered Mixed .....	Pkt. 50c
Grandiflora Dwarf Tigered Mixed .....	Pkt. 50c

**CALLIOPSIS**

These will grow luxuriantly in any situation and are most useful, affording a constant supply of richly marked flowers for cutting. All varieties are annuals. The tall varieties often reach a height of three feet. The dwarf varieties make splendid borders and low beds.

**Crimson King**—A rich deep crimson. Height 8 to 10 inches. Pkt. 10c.  
**Golden Wave (Drummond)**—Large, rich, golden yellow flowers with chestnut-brown centers produced in abundance. Height, 18 ins. Pkt. 10c.

**Tiger Star Mixed**—The flowers are star shaped of rich red color; the end of each petal is spotted golden yellow. Height 10 inches. Pkt. 10c.  
**Dwarf Bicolor Mixed**—A splendid mixture of all the attractive varieties of this class. Pkt. 10c, 1/2 oz. 25c.

**Tall Single Mixed**—Choice tall single varieties. Pkt. 10c, oz. 30c.  
**Tall Double Mixed**—Double and semi-double flowers. Pkt. 10c, oz. 30c.



Canterbury Bells—Single

## CARNATION

Our strain of these popular flowers is unsurpassable in beauty and variety of coloring; also in their delightful fragrance. Seed should be sown in pots or boxes and when 2 to 3 inches high, may be transplanted to the open bed or border, giving shade until the young plants have become established. Sow any time between March and September.

### Engelman's Gold Medal

Splendid new strain of Perpetual Carnation, containing many unusual colors. Flowers are large and of good form. Finest Mixed, Pkt. 25c.

### Chabaud's Everblooming Carnations

Sparkler—Bright red .....	Pkt. 15c	Jeane Dionis—White .....	Pkt. 15c
Pearl—Silvery light pink .....	Pkt. 15c	Marie Chabaud—Lt. Yellow .....	Pkt. 25c
Nero—Deep red .....	Pkt. 15c	Giant—Deep rose .....	Pkt. 15c
Legion of Honor—Salmon .....	Pkt. 15c	Chabaud's Fine Mixed .....	Pkt. 15c

Marguerite, Mixed Colors—This assortment gives a large percentage of fine double flowers. Pkt. 10c, 1/4 oz. 50c.

## CELOSIA PLUMOSA (Feathered Cockscomb)

Plumosa Mixed—A very fine selection of the popular feathered Celosia containing many pleasing shades of color varying from pale yellow to the deepest crimson. Pkt. 10c.

## CELOSIA CRISTATA (Cockscomb)

Very ornamental and strong plants, producing magnificent combs of velvety flowers. They succeed well in the garden and make very attractive pot plants. Sow seed in the spring only, for they are very tender and will stand no frost.

Dwarf Mixed—A mixture of rich velvety colors. Height 10 inches. Pkt. 10c.

Tall Crimson—Brilliant crimson combs borne on stems about 2 feet tall. Pkt. 10c.

Tall Mixed—Contains shades of crimson and yellow. Height 2 feet. Pkt. 10c.

## CELOSIA CHILDSII (Woolflower)

As the name suggests, the flower resembles huge balls of wool. When cut, if it is hung head down until dry, makes a beautiful everlasting flower. Height 15 inches. Mixed, Pkt. 15c.

## CELOSIA CHRYSANTHEFLORA

This is a new variety of Celosia obtained by crossing different species. The heads are very full and large and may be cut and dried as an everlasting flower. They are much admired for their velvety appearance and varied colors. Pkt. 25c.

## CINERARIA

For shaded situations such as the north side of the house, under palms, trees, etc., the Cineraria is ideal. It is best treated as an annual and under favorable conditions if the seed pods are left to mature, it will reseed itself. In Southern California seed should be sown in flats July to November. Soil in the flats should consist of one part loam, one part leaf mold and one part sand. Set the flat in a cool shaded place such as north side of a building and keep well watered. 8 to 10 days are required for germination.

A & M Semi Dwarf—This is an extraordinary strain selected for large flowers, uniform height of plants and the most attractive colors. They may be used as pot plants or for bedding purposes and we especially recommend them to those who want the very finest strain. Pkt. 75c.

Hybrida Large Flowering Dwarf—A large flowering dwarf strain, having brilliant colored flowers and is especially good for outdoor bedding. Pkt. 25c.

## COLEUS

These ornamental foliage plants are very popular for growing in protected borders or for pot culture. They are tender perennials but make a satisfactory growth from seed the first year. A very interesting plant to grow from seed, for many new and fine color combinations are obtained in this way.

Extra Choice Mixed—Pkt. 25c.

Choice Mixed—Pkt. 15c.

Lacinated and Fringed Mixed—Pkt. 25c.

## COREOPSIS

### (Lanceolata Grandiflora)

This is a hardy perennial bearing a profuse and long continued succession of large, bold, golden yellow flowers during the spring and summer months. It is a splendid cut flower, the stems are long and the flowers keep well in water. Seed sown in the early spring will flower the same season. Seed may also be sown in the fall. Height 2 1/2 ft. Pkt. 10c.



Engelman's Gold Medal  
Carnation

## CLEMATIS

A very fine hardy climber; leaves bright and glossy green; flowers small and hawthorne scented, and just covering the plant when in bloom. Excellent for covering trellises or fences.

Paniculata—White. Pkt. 10c.

## CLIANTHUS DAMPIERI

Shrub-like perennial plant producing clusters of bright red flowers with black spot. Pkt. 25c.

## COIX LACHRYMAE ("Job's Tears")

Curious ornamental grass with broad corn-like leaves and seeds of a light slate color. Valuable for winter bouquets with everlasting flowers. Strings of handsome beads are made from the seeds. Hardy annual; three feet high. Pkt. 10c. oz. 30c.



Cineraria, A & M Semi Dwarf





Early Crested Cosmos

**CENTAUREA CYANUS**

(Corn Flower or Bachelor's Button)

This old fashioned hardy annual is still a great favorite for cutting purposes. The deep rich blue is the most popular. The mixture contains shades of pink, white, lavender and blue. Height 2 to 3 feet.

**Double White**—This variety is absolutely pure white and is very double. Pkt. 10c.

**Double Blue**—A pleasing shade of blue. Pkt. 10c, 1/2 oz. 35c.

**Double Pink**—Bright pink. Pkt. 10c.

**Double Mixed**—Pkt. 10c, oz. 40c.



Centaurea Americana

**COSMOS**

A garden favorite producing an array of large artistic flowers in pink, white and crimson shades. The Early Flowering varieties may be sown from early spring to late fall and they will bloom within 60 to 75 days after planting.

The late varieties are autumn flowering and should be planted in late spring or during the summer.

Sow seed in the open ground where plants are to remain, or they may be transplanted from seed bed or flats. When plants are about 10 or 12 inches high the tops should be pinched out to make a branching plant.

**Early Giant** Sow the seeds of these in the early spring to late summer. They are very large flowering and excellent for garden show or for cutting:

Pink ..... Pkt. 10c, 1/4 Oz. 25c    White ..... Pkt. 10c, 1/4 Oz. 25c  
 Crimson .... Pkt. 10c, 1/4 Oz. 25c    Mixed ..... Pkt. 10c, 1/4 Oz. 20c

**Late Giant** These are autumn flowering. Sow the seeds during late spring and summer.

Pink ..... Pkt. 10c, 1/4 Oz. 20c    White ..... Pkt. 10c, 1/4 Oz. 20c  
 Crimson .... Pkt. 10c, 1/4 Oz. 20c    Mixed ..... Pkt. 10c, 1/4 Oz. 20c

**Early Crested** A very beautiful new sort with a decidedly double or crested center. They are admired by all who see them. About 75% of the plants will produce the crested flowers—the remainder will be large single flowers.

Early Crested Pink... Pkt. 15c    Early Crested White Pkt. 15c  
 Early Crested Crimson Pkt. 15c    Early Crested Mixed Pkt. 15c

**Late Crested** The large crested flowers produced abundantly on plants equal in size to the late Giant, present a most striking appearance. Mixed Pkt. 15c.

**Klondike Cosmos** A handsome variety for late autumn blooming. Flowers are brilliant orange yellow and very large. The foliage is quite different from other Cosmos, being rather lacy and dense. It requires a long growing season, so must be planted during spring and early summer. Pkt. 25c, 1/4 oz. 65c.

**COBÆA SCANDENS (Cup and Saucer Vine)**

A perennial climber of rapid growth; very valuable for covering trellises, arbor, trunks of trees, etc. Will cling to any rough surface, often attaining a height of 30 to 40 feet in one season.

**Scandens Alba**—White flowers. Pkt. 10c.

**Scandens Purpurea**—Purple flowers. Pkt. 10c.

**CENTAUREA CANDIDISSIMA**

True Dusty Miller—Broad silvery white foliage; useful for edging. Height 12 inches. Pkt. 10c.

**CENTAUREA AMERICANA**

Beautiful thistle like flowers 4 inches in diameter. Annual. Height 2 feet. White. Pkt. 10c. Lilac, Pkt. 10c.

**CENTAUREA IMPERIALIS**

(Royal Sweet Sultan)

This is the variety so popular in the florist's store. The plants are of spreading habit and one plant has been known to keep a home replenished with cut flowers during the entire summer. Height, 3 to 4 feet. A hardy annual.

Lavender Pkt. 10c, 1/4 Oz. 30c    Purple ..... Pkt. 15c, 1/4 Oz. 50c  
 Amaranth Red ..... Pkt. 10c, 1/4 Oz. 30c    White ..... Pkt. 10, 1/4 Oz. 30c

**Collection No. 14F**—One packet each of the above separate colors, 35c.

**A & M Mixed Colors**—Pkt. 10c, 1/4 Oz. 25c.

**Suaevoleus Yellow**—Similar to Imperialis but producing yellow flowers. Pkt. 10c, 1/4 oz. 35c.



Cobaea Scandens



Delphinium, Sunbeam Hybrids

## CYCLAMEN

A tender, bulbous perennial, used in greenhouses and window gardens. It is easily grown from seed. Sow in the fall or early spring. A & M Choice Mixed. Pkt. 35c.

## CYNOSLOSSUM

Amabile (Chinese Forget-me-not)—A biennial 18 in. high, producing beautiful flowers. Much appreciated in dwarf borders, also as cut flowers. Pkt. 10c.

## CYPRESS VINE (Ipomoea Quamoclit)

A tender climbing annual with fern-like foliage and small star-like red or white flowers. A beautiful vine for growing in porch boxes, hanging baskets, etc., or for covering trellises. Soak the seed 3 hours before planting. Mixed Pkt. 10c.

## SHASTA DAISY

This popular flower has been much improved and the Alaska is the finest of all. The Shasta Daisy is noted for its keeping qualities as a cut flower. They should be planted in the fall or early spring. If planted in late fall will not bloom until the following spring.

Alaska—The finest. Pkt. 10c.

## DIGITALIS (Foxglove)

A hardy perennial, blooming the second year from seed. Grows usually about 3½ feet, although in very rich soil sometimes 6 feet. The bell shaped flowers are borne on long spikes, and come in shades of purple, lavender, rose and white, all spotted lightly inside the blossom. Thrives best in cool, shady locations. Giant Shirley Mixed—Pkt. 10c.

## DIMORPHOTHECA (The Golden African Daisy)

A showy annual from South Africa which has become a great favorite on account of its easy culture and beautifully colored flowers. The colors include all shades of yellow, orange, cream and white and massed in beds or wide borders they have a very brilliant effect. They may be planted during the fall, spring or summer.

Aurantiaca—Brilliant orange. Pkt. 10c.

Hybrids—Mixed Colors. Pkt. 10c.

## A & M DELPHINIUM (Perennial Larkspur)

One of the finest garden flowers and becoming increasingly popular both for garden show and for cutting. Seeds sown in beds or flats during August, September, October and November will bloom the following spring. Cover the seed lightly and shade the seed bed during August and September. The first transplanting may be made when plants are sufficiently large, spacing them about 6 inches apart. After they have bloomed the first time select the most desirable plants and transplant them to a permanent place in the garden. Spray the plants occasionally with Bordeaux Mixture to prevent Mildew. Seed germinates in about 20 days.

### Sunbeam Hybrids—Hollyhock Strain

Although individual named sorts do not generally reproduce themselves from seeds true to name or color nevertheless a carefully selected strain with good parentage is superior in all respects. Under proper cultivation the long, graceful spikes of Sunbeam Hybrids grow to a height of 3 to 5 feet and furnish abundant bloom for cutting. Seed is selected from only fine specimen plants of the most attractive blue and lavender shades. Flowers produced from this strain form some wonderful color combinations. Per Pkt. 50c, 3 Pkts. \$1.25.

### Gold Medal Hybrids

The finest hybrids to be found in Delphinium and all the lovely blues, lavenders and mauves are in this mixture. The plants are vigorous growers, producing tall, handsome spikes. Pkt. 25c, ½ oz. 50c.

### Belladonna

A lovely turquoise blue, which is a continuous bloomer. Splendid for cutting. This is the tall Delphinium so often seen in beds and borders and as cut flowers in the florists shops. Pkt. 25c, ½ oz. \$1.00.

### Bellamosa

A rich deep blue in color and of the same type and habit of growth as the Belladonna. The two grow beautifully together. Pkt. 25c, ½ oz. 75c.

### Cardinale

Scarlet perennial Larkspur. This handsome native flower grows to a height of 4 feet or more and produces its brilliant flowers during the early summer months. Pkt. 15c, ½ oz. \$1.00.

### Chinensis Azure Fairy

A lovely azure blue Delphinium flowering from the seed the first season if the seed is sown in early spring. The height is twelve to eighteen inches. Pkt. 10c, ½ oz. 35c.

### Chinensis Blue Butterfly

A fine dark blue of the same type as Azure Fairy with which it is often grown. Pkt. 10c, ½ oz. 35c.

### Chinensis Fine Mixed

A very pleasing mixture containing dark blue, light blue and white, that blooms the first year from seed sown in the early spring. Pkt. 10c, ½ oz. 30c.

## DAHLIA SEED

With the right seed wonderful results may be obtained and your garden will be a riot of blooms the first season. Each seed produces a new variety and this makes it the most fascinating part of growing Dahlias. They are seldom like the parent plant in type or color. There is no better seed than that grown in California where the long growing season ensures the seed being properly matured. This is not possible in other localities where growth is stopped by rain or frost before the seed is ripe.

**Culture**—Sow seed in flats, covering lightly with sand, screened leafmold or similar material. Place a square of burlap on top of seed bed and keep moist until seed is germinated, removing the burlap as soon as sprouts appear. When plants are 4 or 5 inches high pot them and when well established transplant to the garden. Dahlias from seed will bloom the first season about four weeks later than from tubers.

**A & M Prize Mixed**—All handpicked from the very finest, large flowering and double varieties. Many wonderful seedlings have resulted from this strain of seed. Per Pkt. 75c.

**Decorative**—Seed selected from some of the very finest Decorative Dahlias, including those listed as tubers in this catalogue. These seeds are produced in the field where flowers have the advantage of natural cross fertilization. Pkt. 50c.

**Coltness Hybrids (Mignons)**—These budding dahlias grow from 1-1½ ft. high. Plants are of bushy habit and colors are bright. Free flowering. Pkt. 50c.

**Hybrid Cactus**—This seed is selected from Dahlias of the Hybrid Cactus type. Only those Dahlias of merit are selected as seed producers. Pkt. 35c.

**Pompon Mixed**—The small double dahlia so much prized for cutting. Pkt. 35c.

**Single Mixed**—Seed saved from the choicest varieties. Pkt. 10c.

## DATURA (Trumpet Flower)

Handsome ornamental annuals with large showy flowers. Grows to a height of 3 feet, will flower continuously throughout the summer. Pkt. 10c.





Ramona

## A & M California Poppy (*Eschscholtzia*)

Hardy annual. Seed may be sown from October until April. Fall sown seed will bring large early flowers. Sow the seeds where the plants are to remain. To hold the moisture and insure good germination place burlap bags or cheese cloth on top of the seed bed or row, removing them just as soon as the tiny sprouts appear. Removal of the covering at the proper time is important, for leaving them too long will weaken the plants. Cultivation of poppies and all other plants during the winter months is quite necessary. Well cultivated soil absorbs the heat from the sun, allows a free circulation of air and provides good growing conditions generally. Poppy seeds are small and all small flower seeds should be planted to a depth of about twice the breadth of the seed itself.

Some wonderful new varieties have been produced recently. Remarkable color combinations which make striking beds and splendid cut flowers. California Poppies have a long blooming season which may be prolonged by cutting off the seed pods.

### A SUGGESTION

On your automobile and hiking trips take with you a few ounces of California Poppies and scatter the seeds along the way. Remember that every wild flower picked reduces the amount of seed matured. To refrain from picking them and to scatter a few seeds as you go will assist in preserving the beautiful natural California flora we all so much enjoy. Another good plan is to sow on vacant lots and other spaces and let the winter rain germinate the seed.

### NEW FLUTED AND RUFFLED VARIETIES

**Ramona**—Novelty. This variety stands out as a distinct and very charming type in the frilled class. It is a single but the frills give it the appearance of a semi-double. The color is a glittering coppery gold with pink shadings. Very attractive. Pkt. 35c.

**Orange Flame**—Vivid orange-scarlet and most striking of all the new colors. The plants are very erect and compact and would do for borders. Pkt. 15c, ¼ oz. 50c.

**Ballet Girl**—The outside of the petals is an intense carmine, the inside a light cream, making a contrast of colors both beautiful and startling. Pkt. 15c, ¼ oz. 50c.

**Tango**—A bronzy red overlaid terra cotta. This variety was introduced recently and found immediate favor. Pkt. 15c, ¼ oz. 50c.

**Mauve Beauty**—an entirely new color. Is a beautiful shade of pure mauve. Pkt. 15c, ¼ oz. 50c.

**Lovely**—True to its name this variety is a bright rose pink suffused with salmon. The blooms have a satiny appearance which adds much to their loveliness. Pkt. 15c, ¼ oz. 50c.

**The Geisha**—The inside of the petals is a brilliant gold and the outside orange-crimson. The petals are fluted, which makes the open flowers very attractive. Pkt. 15c, ¼ oz. 40c.

**Vesuvius**—A very odd color of wallflower red. Pkt. 15c, ¼ oz. 30c.

**Scarlet Beauty**—The brightest color of all, being a deep scarlet and as the plants are erect and the flowers large it gives the effect of vivid scarlet tulips. Pkt. 15c, ¼ oz. 50c.

**Extra Choice Mixed**—Contains the above, also many other of the newer colors. Pkt. 15c, oz. 90c.

**Collection No. 17F**—One packet each of the above named 9 varieties \$1.00.

### Standard California Poppies

**Aurantiacia**—The true California poppy. Color is deep orange. Pkt. 10c, oz. 30c, ¼ lb. \$1.00, lb. \$3.00.

**California White**—A re-selected pure white. Pkt. 10c.

**California Golden West**—Yellow with orange center. Pkt. 10c.

**California Crimson**—Carmine Crimson. Pkt. 10c.

**California Chrome Queen**—Amber yellow. Pkt. 10c.

**Collection No. 19F**—One packet each of the above 5 named varieties 40c.

**California Mixed**—Pkt. 10c, oz. 25c, ½ lb. \$1.25.

## DIANTHUS OR PINKS

Grows from 1 foot high, and bears beautifully colored single and double blossoms in profusion all summer. Sow seed in boxes and transplant, or sow in rows where the plants are to remain, and thin. They are largely used for border, massing in beds and for cutting. There is a wide range of colors from purest white through all shades of pink to deepest red.

### Annual

Chinensis, Double Mixed, Pkt. 10c.  
Heddeburg, Double Mixed, Pkt. 10c.  
Heddeburg, Single Mixed, Pkt. 10c.

### Perennial

Plumarius (Grass Pinks)—A hardy perennial pink used for borders and cutting and producing a constant bloom of flowers of varied hues.

Double Grass Pink, Mixed, Pkt. 10c.  
Single Grass Pink, Mixed, Pkt. 10c.

Dianthus Deltoides—Invaluable plant for rockery, forming masses of small crimson flowers. Hardy perennial. Height 6-8 inches. Pkt. 25c.  
Dianthus Caesius—Another splendid rock plant forming rosy-pink flowers in great profusion. Perennial, very dwarf. Pkt. 15c.

## DIDISCUS COERULEUS (Blue Lace Flower)

This beautiful lace flower is a very attractive cut flower of a lovely blue shade and is most effectively used when mixed in bouquets. The culture is easy and being a hardy annual may be planted from early spring to late summer. If you like to raise your own cut flowers you will be glad to have this in your collection. Pkt. 15c.

## DOLICHOS OR HYACINTH BEAN

Tender, climbing annual. Grows rapidly and is valuable for covering a trellis. Flowers in purple and white. Sow seed in open ground late in April.  
Mixed—Pkt. 10c.

### DUSTY MILLER

See Centaurea Candidissima.

### ERIGERON

Speciosa Hybridus—Mauve blue flowers with yellow centers. Pleasing perennial 1½-2 feet in height. Excellent for cutting and rock gardens. Pkt. 15c.

### ERYNGIUM

Amethystinum—Perennial with thistle-like flowers of amethyst blue color borne on stems of bluish-green tinge. Very effective in a dried state and much in demand by florists. Height 2-3 feet. Pkt. 25c, ½ oz. 75c.

### EUPHORBIA

(Snow on the Mountain)  
Very pretty annual plant with white and green edged foliage. Easy to grow. Height 2 feet. Pkt. 10c.

## EVERLASTING FLOWER COLLECTION

Collection No. 16F—One packet each  
Acroclium Rosea, Ammobium, Gomphrena Mixed, Helichrysum Mixed, Statice Perezii, Rhodanthe and Xeranthemum. Special 50c.

### EVERLASTING PEAS

See Lathyrus Latifolius.

## FOUR O'CLOCK (Mirabilis)

Also called Marvel of Peru. A hardy annual of easy culture, growing about 2 feet high. The plant is free flowering, bearing blossoms of a great variety.  
Mixed—Pkt. 10c.

### FOXGLOVE

See Digitalis.

## FORGET-ME-NOT

### (Myosotis)

A hardy perennial with small blue star-like flowers borne in clusters on long stems. Will bloom the first year if sown early and does best if sown in a box and then transplanted to a cool moist situation.

Alpestris Tall—Light blue flowers, strong, long stems and vigorous growers make this a popular variety. Pkt. 10c.

### FREESIA

These dainty little popular flowers may be grown from seeds or bulbs. They flower very early in the spring and are one of the most delightfully fragrant flowers in cultivation. Freesias are easily grown from seeds and will bloom the following spring if sown in the fall.

Purity—White. Pkt. 10c.

### GAMOLEPIS

Tagetes—Annual plant growing about 1 foot high. Suitable for rock gardens or borders and prefers a sunny situation. Bears an attractive orange flower and is a continuous bloomer. Pkt. 15c.

### GLOXINIA

Robusta Grandiflora Mixed—Beautiful house plant forming flowers of varied rich hues. Seed should be sown in shallow pans in warm temperature during February and the young plants transplanted into pots as soon as large enough. In no stage of growth should the leaves be wetted. Use two parts leaf mold, one part loam and one part peat humus for best results. Pkt. 50c.

## GLAUCIUM

### (Horned Poppy)

Brilliant flame colored perennial growing to a height of 4 feet in California. Very showy flowers. Pkt. 25c.

## GAILLARDIA

Beautiful show plant, remarkable for the profusion, size and brilliancy of its flowers, continuing in bloom from early summer till late in the fall. Excellent for beds, borders, or for cutting. Height 18 inches.

### Annual Varieties

Picta Lorenziana Double—Large heads of bright yellow and red flowers, very double with quilled petals, suitable for bouquets. Should be sown where plants are to remain.

Double Ruby ..... Pkt. 25c  
Double Yellow ..... Pkt. 25c  
Double Lemon ..... Pkt. 25c  
Double Mixed ..... Pkt. 15c  
Picta Single Mixed—Showy strain producing large flowers of various colors. Pkt. 10c, ¼ oz. 25c.

### Perennial Varieties

Portola Hybrids—A new variety with flowers four inches across. They are very striking in appearance, the petals being of brilliant scarlet, tipped golden yellow. Pkt. 15c.

The Dazzler—New Giant red Gaillardia with orange tips. Makes an extremely attractive table decoration. Pkt. 15c.  
Indian Chief—Copper red, a new color which cannot fail to win admiration. Pkt. 15c.

Grandiflora Single Mixed—Single perennial variety of varying shades of reddish brown and yellow. Pkt. 10c, ¼ oz. 25c.



## GERBERA

### (Transvaal Daisy)

Large daisy-like blossoms with flower stems rising to a height of about two feet. Colors range from white to crimson, pink, rose, yellow and lilac shades. Flowers both summer and winter. Seed sown under lathouse conditions in sandy soil where good drainage is provided germinates easily. (Illustrated above). Pkt. 25c.





Geum

## HELICHRYSUM (Straw Flower)

A free-flowering, hardy annual, growing four or five feet high and bearing beautiful straw-like flowers in a great variety of shades and colors.

- Salmon—A bright salmon pink. Pkt. 10c.  
Silver Globe—A glistening white. Pkt. 10c.  
Golden Ball—Deep golden yellow. Pkt. 10c.  
Fireball—Bright scarlet. Pkt. 10c.  
Violet—Pkt. 10c.  
Crimson—Pkt. 10c.  
Rose Carmine—Pkt. 10c.  
Rose Queen—Pkt. 10c.  
Silvery Pink—Pkt. 10c.  
Separate Colors— $\frac{1}{2}$  oz. 25c.  
All Colors Mixed—Pkt. 10c.  $\frac{1}{2}$  oz. 50c.  
Collection No. 45—One Pkt. each of the above 10 named varieties, 75c.

## HELIANTHUS

See Sunflower.

## HELIOTROPE

A half-hardy perennial growing four to eight feet high. Small flowers, borne in graceful clusters and very fragrant. Blooms the first season from seed if sown early. Forms a large plant and requires a roomy situation.

Finest Mixed—A mixture of the best types in shades of white, mauve and purple. Pkt. 15c.

## HIBISCUS

Finest Mixed—A beautiful shrub-like plants growing from 3 to 5 feet high. The flowers are 4 to 5 inches in diameter and our mixture contains many bright and varied colors. Perennial. If sown early in the spring will bloom the first year, and it is a good idea to cut the plants back after blooming. Pkt. 15c.

## GYPSOPHILA

A hardy annual of easy culture. Grows two or three feet high, and bears a profusion of small star-shaped white or pink flowers.

Elegans Grandiflora—Annual white. Very largely grown by florists for use in bouquets. Pkt. 10c, oz. 25c.

Elegans Rosea—Charming shade of rose, well worth growing in addition to the white. Pkt. 10c, oz. 35c.

Elegans Carmine—A recent introduction of a deep carmine. Pkt. 10c, oz. 35c.

Paniculata—Fine for bouquets; white flowers, perennial. Pkt. 10c.

Double Snow White—Beautiful double form of Paniculata white. Pkt. 25c.

## HEUCHERA

Sanguinea—Hardy perennial  $1\frac{1}{2}$  feet high. Very easy to grow. The crimson-scarlet flowers are fine for cutting. Pkt. 15c.

## A & M HOLLYHOCKS

A hardy perennial of upright, stately growth, five to eight feet high, unequalled for a background or covering ugly places. The seed may be sown in the fall and will bloom the following spring. If sown in the early spring many will flower in the summer. The seed is generally sown in seed beds and transplanted where they are to grow.

Double Maroon	.....	Pkt.	$\frac{1}{4}$ oz.
Double Scarlet	.....	..	\$.75
Double Rose	.....	..	..75
Double Newport Pink	.....	..	..75
Double Yellow	.....	..	..75
Double White	.....	..	..75
Double Mixed	.....	..	..55

Collection No. 20F—One packet each of the above six named varieties, 50c.

Annual Single Mixed—A recent introduction in hollyhocks. This fine single mixture if sown in the spring will flower the first year. Pkt. 10c.

## GEUM

A beautiful hardy perennial producing flowers in profusion from spring till fall. It is an excellent cut flower, having long stems and keeping well.

Mrs. Bradshaw's Double Red—Large bright orange-scarlet double flowers. Pkt. 15c.

Lady Stratheden—A very striking double yellow flower, very large. Pkt. 25c.

## GERANIUM

A half-hardy perennial flowering the first year from seed if sown early. A gorgeous flower of numerous shades of color.

Choice Varieties Mixed—This choice mixture includes many of the newest and finest sorts. Pkt. 25c.

Lady Washington Mixed—A very popular variety of geranium. The flowers are particularly beautiful. It is very interesting to grow from seed, many extra choice varieties are often obtained. Pkt. 25c.

## GILIA

Capitata—Graceful annual, growing to a height of about 2 feet and bearing beautiful, globular flowers about one inch in diameter. Color a rich lavender blue. Foliage is feathery and very pretty. A native of California, easily grown and very effective for mixing with bouquets. Sow seed in fall, where plants are to remain. Pkt. 10c,  $\frac{1}{2}$  oz. 25c.

## GLADIOLUS SEED

The seed should be sown in a well prepared seed bed where the young plants may be allowed to remain for a year. If covered with  $\frac{1}{2}$  inch of sawdust and kept moist, the seed should germinate in two to three weeks. Many varieties will bloom the first year and a bed of well grown seedling gladioli, when in bloom, presents a gorgeous variation of color and type. Per pkt. 25c.

## GOMPHRENA

Entirely different in appearance from any other everlasting flower, and very attractive. Has a globe-shaped flower resembling a clover blossom which, when cut and dried holds its shape and color well. Mixed Pkt. 10c,  $\frac{1}{2}$  oz. 30c.

## GODETIA

A hardy annual, very valuable for bedding and borders. For mass effects in shades of rose, red or pink it is unexcelled. The satiny cup-shaped flowers cover the compact-growing plants. The seed should be sown in the fall or early spring.

Dwarf Single Mixed—Height 10 to 15 inches. Pkt. 10c.

Tall Single Mixed—Height 18 to 24 inches. Pkt. 10c.

Azalea Flora—New dwarf double variety. Flowers are carmine and when the plant is in full bloom it is nothing but one mass of flowers. Highly recommended for pot culture. Pkt. 15c.

Tall Double Carmine.....Pkt. 10c

Tall Double Rosea.....Pkt. 10c

Tall Double Mauve, Pkt. 10c

Tall Double Crimson, Pkt. 10c

Tall Double Mixed, Pkt. 10c



Godetia



Hunnemannia

### HUNNEMANNIA (Bush Eschscholtzia)

Known also as the Mexican Tulp Poppy. An erect-growing, tender perennial, about 2 ft. high. Foliage fine-cut, blossoms beautifully cup-shaped, bright yellow and about three to four inches across. Stems, long and smooth. Unlike the average poppy, Hunnemannia will keep for several days in water and makes a splendid cut flower. Pkt. 15c.

### HUMULUS (Japanese Hop)

A rapid growing ornamental climber covering arbors, trellises, etc. in one season. The foliage resembles the common Hop and is very luxuriant, making a dense vine. Will stand extreme heat and remain green until frost. An annual.

**Japonicus**—Green foliage and a strong grower. Plant seed in Spring after soil has begun to warm. Pkt. 10c, ¼ oz. 25c.  
**Japonicus Variegatus**—Beautifully splashed and striped with silver. Pkt. 10c.

### ICE PLANT (Mesembryanthemum)

**Crystallinum**—The variety is largely grown for the glistening foliage. The leaves are large, fleshy and covered with glistening dots. The flowers are small and white. This is not the trailing variety used on banks. Pkt. 10c.

### INCARVILLEA

**Varlabilis Hybrids Mixed**—Very desirable for pot culture. It blooms the first year from seed and resembles a miniature Gloxinia. These hybrids contain attractive colors of pink, rose and salmon shades. Pkt. 35c.

### IPOMOEA

Splendid rapid growing climbers. The flowers are beautiful and varied and resemble giant Morning Glories. The foliage is luxuriant and makes a growth of 10 to 30 feet a season. The seed of several varieties, especially the moon flower, should have the outer shell punctured and then soaked in water for twelve hours or more to germinate it.

**Coccinea**—Brilliant scarlet flowers with small foliage. Pkt. 10c.  
**Bona Nox (Evening Glory)**—Fragrant violet flowers, expanding in the evening. An annual. Pkt. 10c.  
**Grandiflora Alba (White Moonflower)**—Large white fragrant flowers which expand at night and early morning. Annual. Pkt. 10c, ¼ oz. 25c.

**Heavenly Blue**—Sky blue flowers and one of the most attractive of Ipomoeas. An annual. Pkt. 15c, ¼ oz. 50c.  
Collection No 21F—One packet each of the above four named climbers. 30c.

### JACOBÆA

**Double Red**—Graceful free-flowering annual, producing dense heads of double flowers, which make delightful bouquets. Pkt. 25c.

### JOB'S TEARS

See Colx Lachrymae.

### KENILWORTH IVY

An attractive little perennial trailing plant, very useful for baskets, pots and rock work. Pkt. 10c.

### KOCHIA (Summer Cypress)

**Childsii Improved**—A splendid ornamental annual plant, forming dense oval bushes, 2 to 4 feet high, of small feathery light green foliage. As summer advances this changes to a carmine hue and finally to a fiery red. A very attractive plant at all times. Also called "Burning Bush." Pkt. 10c, oz. 25c.

### KUDZU VINE (Pueraria Thumbergiana)

One of the most rapid growing vines known, often making 40 feet in a season. It may be trimmed frequently for stock feed. All kinds of animals eat it rapidly, especially good for cows, goats and sheep. The seed is slow in germinating and should be punctured or soaked over night in warm water. Pkt. 10c, oz. 75c.

### LANTANA

A tender perennial. The plants become shrubs either large or small according to variety. They are used for borders, hedges and specimen plants, and bear verbena-like clusters of flowers. The mixtures which we offer contain scarlet, orange, white, yellow, rose and other colors. We do not have separate colors.

**Choice Tall Mixed**—Height 3 to 5 feet. Pkt. 10c.  
**Choice Dwarf Mixed**—Height 1 to 3 feet. Pkt. 10c.

### LATHYRUS LATIFOLIUS

**Everlasting Pea**—A hardy perennial climber of great beauty with elegant sweet pea-like flowers in great profusion; height, 6 to 8 feet.  
**Fine Mixed**. Pkt. 10c.

### LAVATERA

**Splendens Rosea**—An annual of easy culture growing 2 to 3 feet in height. The plants are bushy and bloom profusely through the summer and fall. The flowers resemble single Hollyhocks and make attractive bouquets when cut. Pkt. 10c.

### LINUM (Scarlet Flax)

**Grandiflorum Rubrum**—A hardy annual of slender and graceful appearance with fine foliage and bright red flowers. It makes beautiful beds or borders and is largely used for cut flowers. Scarlet Flax makes a fine fall and winter flower, blooming profusely for several months. May also be sown in the spring. Height 1½ to 3 feet. Pkt. 10c, oz. 40c, ¼ lb. \$1.00.  
**Perenne (Blue Flax)**—Slender growing hardy perennial producing a profusion of light blue flowers. Height 2½ feet. Pkt. 10c.

### LINARIA

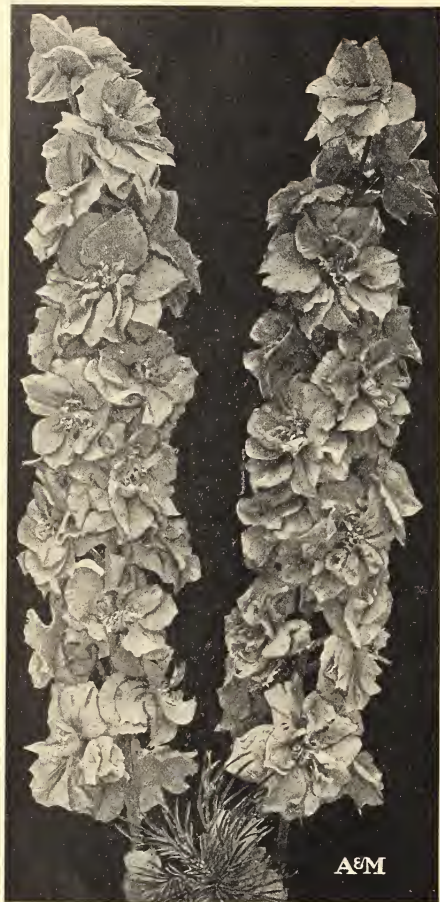
**Maroccana Mixed**—Annual growing about 1 foot high, producing graceful spikes of varied colored flowers. They are of easy culture and once established will grow to good size plants and produce a wealth of bloom. Sow in flats and transplant. Pkt. 15c, ¼ oz. 25c.

**Macedonica Speciosa**—Hardy perennial which will bloom first year if sown early. Produces in abundance long spikes of pale yellow flowers which are excellent for cutting; height 3 feet. Pkt. 15c.



Linaria Macedonica Speciosa





Larkspur—La France



Leptosiphon

## LARKSPUR

Our double flowering varieties, with their long spikes, are excellent for cut flowers. They should be planted in beds, as a background for other small plants. With the great variety of colors one may carry out most any color scheme desired, and the bright shades will add a touch of beauty to the garden that will be a pleasure to note. They are easily grown and we know of nothing that will produce a greater show. By all means include a general assortment of A & M Larkspur in your garden for early spring blooming.

In Southern California, larkspur may be sown in Spring and Fall, where the plants are to remain or they may be transplanted from flats or seed beds. It requires 15 to 20 days for the seed to germinate and the seed bed must be kept moist.

### New and Exceptional Varieties

#### LA FRANCE

This is one of the outstanding novelties of the year. It is very vigorous and tall growing and the beautiful long flower spikes are an exceptionally pleasing salmon pink shade. Pkt. 35c.

#### IMPROVED EXQUISITE PINK

The improved strain of Exquisite Pink is the result of a series of crosses and it comes practically 100% true. Delightful soft color. Pkt. 35c.

#### EXQUISITE ROSE

Beautiful shade of rose pink, several tones deeper than Exquisite Pink. Pkt. 35c.

#### AGERATUM BLUE

A superb shade of blue and tones nicely with other varieties. Very free growing. Pkt. 20c.

Collection 23F—One packet each of the above four exceptional varieties \$1.00.

### Standard Varieties

	Pkt.	¼ oz.	oz.
Lustrous Carmine—Glowing color	15c	45c	\$1.35
Light Blue—A clear light Ageratum blue	10c	30c	75c
Dark Blue—A rich deep blue	10c	30c	75c
Rose—Rose pink suffused lavender	10c	30c	75c
Scarlet Rose—Deep rose	10c	30c	75c
Lilac—A lovely shade	10c	30c	75c
White—Pure white	10c	30c	75c
A & M Mixed—All colors	10c	25c	60c

Collection No. 22F—One packet each of the above named seven varieties 55c.

## LEPTOSIPHON

Hybrids Mixed—Profuse blooming annual. Grows about 3 inches high and is very useful for rock gardens and for edgings. Flowers are of varied colors and very showy. Pkt. 15c.

## LEPTOSYNE

Maritima—Annual, 3 feet. The pale yellow flower similar to Marguerites are borne on long stems. Pkt. 15c.

## LOBELIA

This hardy annual grows foot to six inches high, is of compact growth, and literally covered with small bright flowers. By cutting back the plants during the summer and giving plenty of water they may be kept in flower all summer. Used for ribbon work and borders or hanging baskets.

Crystal Palace—Undoubtedly the finest dwarf blue Lobelia for bedding. Plants very compact, profusely covered with rich, blue flowers. Height, 4 inches. Pkt. 10c.

Hamburgia—A trailing variety specially suited as a graceful plant for hanging baskets. Light blue. Pkt. 10c.

Emperor William—A dwarf light blue with light green foliage. Pkt. 10c.

Royal Purple—Deep rich, blue-purple flower, height 6 inches, very compact. Pkt. 10c.

## LUPIN

One of our most attractive and easiest grown native flowers. The plants grow 2 to 3 ft. high and have handsome spikes of flowers which are fine for cutting. If the plants are not allowed to go to seed they flower for several months in the spring. Hartwegi Dark Blue—Pkt. 10c.  
Hartwegi Sky Blue—Pkt. 10c.  
Hartwegi Mixed—Pkt. 10c, ½ oz. 25c.  
Nanus Dwarf Blue—Height 1 ft. Very useful for sowing with California Poppy on vacant lots and open spaces. Pkt. 10c, ½ oz. 25c.

Perennial Lupin—A very beautiful hardy perennial. The foliage is a soft green and the stately spikes of flowers rise several feet above the foliage. They bloom continuously during the spring. Choice Mixed—Pkt. 15c.



A & M Tall African Marigold

### LILIUM REGALE

This Lily may readily be grown from seed. The flowers inside are canary yellow fading to white and suffused pink. Outside they are white shaded purple. Very profuse bloomer, particularly suited to California. Lift the bulbets in the fall and re-plant deeper. Pkt. 25c.

### LUNARIA

Bienns Purple (Honesty)—Hardy biennial usually grown as an annual. Much admired for its silvery seed pods which are used for winter decorations. Grows 2 to 3 feet high. Pkt. 10c.

LOVE-IN-A-MIST—See *Nigella*

MARVEL OF PERU—See *Four O'Clock*

### MATHIOLA BICORNIS (Night Scented Stocks)

An old-fashioned annual whose purplish flowers are of delightful fragrance emitted in the evening. Pkt. 15c.

### MIMULUS

Tigrinus Queen's Prize Mixed—Commonly called Monkey Flower. A dwarf, bushy growing annual blooming freely throughout the summer. Gloxinia-like flowers, yellow to crimson. Does best in a moist, shady situation. Height 1 foot. Pkt. 10c.

Moschatus (Musk Plant)—Well known, old fashioned plant with scented leaves and small yellow flowers. Pkt. 10c.

### MINA LOBATA

A showy hardy annual climber, bearing flowers of a brilliant red, changing to a pale yellow. Makes a luxuriant growth of 15 to 20 feet and flowers freely all summer. Adapted for porches, arbors, etc. Pkt. 10c.

MOONFLOWER—See *Ipomoea*

MOURNING BRIDE—See *Scabiosa*

MYOSOTIS—See *Forget-Me-Not*

## A & M MARIGOLD

A & M strains of Marigold are becoming increasingly popular, and below we offer varieties which are most in demand.

Marigold is a hardy annual, in dwarf and tall varieties, growing from 6 in. to 3 feet high. The flowers are various shades of yellow and brown. The tall varieties are very valuable for large bedding or background work, and the dwarf varieties for borders.

### African (Fistulosa Type)

African Tall Double Orange—Beautifully formed flowers of gigantic size and bright color; height, 2½ feet. Pkt. 10c, ¼ oz. 50c, oz. \$1.50.

African Tall Double Lemon—Like the above but a pure citrus yellow. Pkt. 10c, ¼ oz. 50c, oz. \$1.50.

African Tall Double Mixed—Pkt. 10c, ¼ oz. 35c, oz. \$1.00.

### French

The flowers are much smaller than the African, but are greatly prized for bedding.

Tall French Single Brown—This fine flower is being grown extensively for florists. It is a combination of beautiful shades of brown and fine for cutting. Pkt. 10c, ¼ oz. 25c.

Tall French Mixed—In shades of yellow, brown and tricolors. Height, 2 ft. Pkt. 10c, ¼ oz. 25c.

Dwarf French Mixed—Like the above but only 10 inches high. Pkt. 10c, ¼ oz. 25c.

Dwarf French Legion of Honor—The flowers are single and a dark, velvety brown, gracefully surrounded by a distinct gold ring. The compact, bushy plant flowers abundantly and is more lasting than any other annual. Pkt. 10c, ¼ oz. 25c.

A & M Dwarf French Golden Ball Marigold—This is one of the finest border plants. Habit of growth is compact and it blooms well over a long season. In climates similar to Southern California, planted in the early fall, it blooms all winter or if planted in early spring will bloom throughout the summer. The round golden yellow flowers are very attractive and pleasing. Pkt. 10c, ¼ oz. 35c.

### MIGNONETTE

Hardy annual, growing 6 to 12 inches high and bearing pyramid-shaped spikes, exceedingly fragrant.

The seeds may be sown from early spring until fall for a succession of bloom. It is used for bedding, borders, and cut flowers.

A & M Colossal—A new giant Mignonette. The spikes are two to three inches in diameter and each plant has many spikes. The flowers are a deep cream and fragrant. A novelty worth having. Pkt. 15c, ¼ oz. 50c.

Goliath Red—Robust growing variety with enormous spikes of red colored flowers; height, 15 inches. Pkt. 10c.

Machet Mixed—A dwarf compact variety, with large stubby spikes covered with copper-red flowers. Pkt. 10c, ½ oz. 25c.

Odorata Mixed—Sweet scented. Pkt. 10c, ½ oz. 25c.



Matricaria

### MATRICARIA (Fever Few)

Double White (Capensis)—A perennial bearing small double white flowers. Good for cutting. An old fashioned garden flower. Pkt. 10c.

Golden Ball—A compact dwarf plant, used for borders. The flowers are a double yellow and bloom freely. Pkt. 10c.





Nigella

**NIGELLA (Love-in-a-Mist)**

A hardy annual, one foot high, with finely cut foliage. Oddly shaped blossoms in blue and white and curious seed pods. Of easy culture.

Miss Jekyll—Long stemmed flowers which are of a clear cornflower blue; elegant foliage; height, 18 inches. Pkt. 10c. Mixed Colors—Blue and White. Pkt. 10c.

**A & M MORNING GLORY (Convolvulus)**

Free flowering, rich and varied colored flowers. The climbers are very useful for covering lattice work, verandas, etc., where they are exceedingly effective. Soak the seed for several hours in warm water before planting.

Major Tall Mixed—Attains a height of 15 feet or more. Pkt. 10c. oz. 20c.

Minor Dwarf Mixed—A beautiful hardy bedding and border plant, attaining a height of about 1 foot. Pkt. 10c, oz. 30c.

Imperial Japanese Morning Glory—The best Morning Glory for strong growth and varying colors. Height 15 to 20 feet. Pkt. 10c, oz. 25c.

Convolvulus Mauritanicus—Species of Convolvulus valuable as a rock garden plant; blooms freely throughout the summer. Flowers violet-blue. Pkt. 25c.

**A & M NASTURTIUMS**

These favorite and well known flowers are popular because of the great variety of colors which may be obtained with very little labor. They are not particular as to soil, fertility or cultivation and may be seen at the beach resorts growing in banks of pure sand where they get little or no attention. If you have an unsightly spot, plant A & M Nasturtiums and convert it into a beauty spot. The Dwarf varieties may be used for bedding and borders while the tall climbing varieties may be used for covering unsightly fences and fence corners. The Nasturtium is known to most every one but few people appreciate its real value for the uses we have described. They will bloom in a few weeks after planting and will continue until cut down by the frost.

**Dwarf Nasturtiums**

	Pkt.	Oz.	¼ Lb.
Aurora—Terra Cotta color.....	\$.10	.20	\$.60
Empress of India—Deep scarlet.....	.10	.20	.60
Cloth of Gold—Flory red.....	.10	.20	.60
Golden King—Pure yellow.....	.10	.20	.60
Ruby King—Bluish rose.....	.10	.20	.60
Vesuvius—Salmon.....	.10	.20	.60
A & M Dwarf Mixed.....	.10	.20	.60
Collection No. 24F—One packet each of the above six named varieties, 45c.			

**Tall Nasturtiums**

	Pkt.	Oz.	¼ Lb.
Jupiter—Golden yellow.....	\$.10	\$.20	\$.60
Regelianum—Crimson.....	.10	.20	.60
Twilight—Yellow and rose.....	.10	.20	.60
King Theodore—Bright crimson.....	.10	.20	.60
Scarlet.....	.10	.20	.60
A & M Tall Mixed.....	.10	.20	.60
Collection No. 25F—One packet each of the above five named varieties, 35c.			



Pentstemon

**PENTSTEMON**

Gloxinioides "Sensation"—The large Gloxinia shaped blossoms vary from pure white, pink, rose and crimson to mauve and purple, including many which are beautifully edged. Hardy perennials Height, 2 feet. Pkt. 15c.

**NEMESIA**

Hardy annual. This flower is obtainable in numerous shades of beautiful colors, and when grown in mass form, gives a fine effect. Sow in a seed bed early in the spring and transplant.

Strumosa Suttoni—Mixed colors, height 15 inches. Pkt. 25c. Nana Compacta, Triumph Mixed—A brilliant mixture of colors making a fine low border or bed. Height 8 inches. Pkt. 25c.

Compacta Blue Gem—Pretty forget-me-not blue color. Very beautiful for edging or pot culture. Pkt. 25c.

**NEMOPHILA**

A hardy California annual growing about six inches high. The blossoms are cup-shaped and the colors are blue, white, lavender and spotted. The seed may be sown from October to March and is very valuable for carpet bedding.

Insignis (Baby Blue Eyes)—Sky blue, with white eyes. Pkt. 10c, oz. 50c.

Choice Mixture—Pkt. 10c, oz. 45c.

**NEPETA MUSSINI**

One of the best rock garden plants. It blooms nearly all the time and the flowers are lilac blue on stems 12 inches high. The whole plant is aromatic. Hardy perennial. Pkt. 25c.

**NICOTIANA, OR FLOWERING TOBACCO**

A hardy annual growing 3 to 4 feet high and of branching habit. The plants are covered with the slender tubular flowers all summer. They may be used as a back ground or as single specimens. Popular for its evening fragrance.

Affinis—White, and very fragrant. Pkt. 10c. Sanderae Mixed—A new, large flowering type, with various bright-colored blossoms. Pkt. 10c.

**OENOTHERA**

Evening Scented Primrose—A tall growing plant bearing an abundance of large yellow flowers which expand in the evening. Height 2 to 3 feet. May be planted in part shade.

They are very sweet scented, are a valuable addition to any garden. Easily grown. Pkt. 10c, ¼ oz. 25c.

**PASSIFLORA (Passion Vine)**

Edulis—Perennial climber and rampant grower blossoming freely. The pulp of the fruit is delicious. Pkt. 15c.

**PHASEOLUS (Snail Vine)**

Caracalla—A perennial vine bearing in abundance large clusters of fragrant waxy flowers curiously twisted, resembling a snail. Grows 15 feet high. Pkt. 25c.

**PHYSALIS FRANCHETII (Chinese Lantern Plant)**

This hardy biennial plant grows to a height of about 2 feet and is a profuse bloomer, producing many large striking flowers of a beautiful brilliant orange red color, resembling Chinese lanterns in shape. Pkt. 15c.

**POLEMONIUM**

Coeruleum (Jacob's Ladder)—Popular hardy perennial plant with beautiful bell shaped blue flower and fern-like foliage. Height 2 feet. Pkt. 10c.

## A & M PANSIES

Pansies thrive best in a moist, sunny location and in rich, loamy soil. Seed should be sown in the autumn for early spring blossoms, or can be sown early in the year for good flowers later in the spring. The plants must be transplanted twice in order to get the largest flowers; once from the seed box to a chosen bed, and again to the open garden. This is important for large size pansies; use manure liberally. The blossoms are usually larger in the spring and again in the fall, and while they bloom freely all summer, the blossoms are small during the hot months.

It is much more interesting, satisfactory and inexpensive to grow your own pansies from seed. By so doing you may select and carry out your individual color scheme; you may also select your own types and take advantage of some of the finest varieties the plants of which are not offered for sale.

### A & M Super Maximum

A lovely and distinct strain bearing extra large flowers with long stems that hold them well above the foliage. We introduced this pansy particularly for those who want an extraordinary strain, and we are pleased to recommend them highly. Letters from many friends indicate they are very satisfactory, and our own trials are greatly admired by all who see them. Pkt. 50c, 3 pkts. \$1.25.

### Miracle Mixed

A splendid mixture containing the finest types of the different strains, latest novelties, ruffled flowers, and many of the new Sunburst Pansies, all with fine long stems. Excellent for forcing or outside growing. Pkt. 50c.

### Greenhouse Special

This mixture of fine pansies, highly recommended for greenhouse or garden, needs no introduction to the florists of Los Angeles, where it has given unbounded satisfaction for several years. Large flowers in the most desirable colors, on long stems. Pkt. 50c.

### Swiss Giants

Not quite so large as our Super Maximum but much larger than the ordinary pansy and a selection of many exquisite colors. Pkt. 35c, ½ oz. \$1.25.

### A & M Mastodon Pansies

A very popular beautiful strain of pansies. They bloom two to four weeks earlier than most strains, produce very large showy flowers and are exceptionally fine for beds, borders and window or porch boxes.

Adonis—Lovely sky blue. Pkt. 25c.

Bronze Mastodon—Very large, with all the different shades of burnished brass to gold, with no two flowers exactly alike. Pkt. 25c.

Madame Steele—Elks purple, of fine form and enormous size. Pkt. 25c.

Panama Pacific—A huge deep yellow, some have the dark center, some without. A beautiful bedding color. Pkt. 25c.

White Mastodon—Snow white with a large center, very large and beautiful. Pkt. 25c.

Mastodon Mixed—A wonderful collection of rich velvety shades, in great variety, with fine long stems. Pkt. 25c, ½ oz. \$1.00.



Pansy, A & M Super Maximum

### A & M Giant Pansies

Where masses of distinct colors are desired A & M Giant Pansies will prove of great value.

Giant Aurora—Pure white. Pkt. 10c.

Giant Azure Blue—Pale blue. Pkt. 10c.

Giant Bridesmaid—Rose blotched. Pkt. 10c.

Giant Eros—Velvety brown with yellow margin. Pkt. 10c.

Giant Golden Queen—Pleasing golden center. Pkt. 10c.

Giant Madam Perret—The lower petals are pale with rich rose color markings. Pkt. 10c.

Giant Yellow (Black Eye)—Pkt. 10c.

Giant Prince Henry—Darkest blue, very large beautiful flower. Pkt. 10c.

Giant Ruby Red—Very large blooms in striking red shades. Pkt. 10c.

Giant White (Purple Eye)—Large well-formed flowers. Pkt. 10c.

Collection of the Above 10 Varieties for 80c.

A & M Giant French Mixed—A very showy mixture of vigorous compact growth. Fine bedding strain. Pkt. 10c, ½ oz. 75c.

### PRIMULA (Primrose)

Primroses are charming plants which blossom freely during the spring and winter. They are of easy culture and should be sown from March to May and again in July to August for a succession of bloom. All make splendid pot plants and some blossom freely out of doors even during the winter.

Giant Flowered—The beautiful Fringed Chinese and Obconica Grandiflora are large flowering, bloom freely for several months and are one of the very best house plants. We offer only the best seed.

Chinese Fringed, Mixed—Pkt. 35c.

Obconica Grandiflora—Pkt. 35c.

Malacoides—A free flowering improved variety of Baby Primrose. They may be planted out of doors or used as pot plants. If planted in August in partial shade they will flower freely during the winter. Flowers a delicate lilac. Pkt. 25c.

Veris, Polyanthus, Mixed—Well known member of the primula family very useful for mass bedding preferring a shady situation. Pkt. 25c.

Auricula, Fine Mixed—Seed saved from the finest varieties covering a wide range of beautiful shades. Excellent for bedding and also valuable for the rock garden. Pkt. 25c.



Physostegia

### PHYSOSTEGIA

Speciosa (False Dragon Head)—Very pretty hardy perennial growing 4-foot high. Flowers are of varying shades of pink. Splendid for borders. Pkt. 25c.



## A & M POPPIES

The different varieties of poppies are always favorites for outdoor display and the cultivation of them being so extremely simple entitles them to a place in every garden. Seed should be sown where the plants are intended to flower, because it is difficult to transplant them with any measure of success.

In California, October to March is the best planting season. Poppies cut in the bud will open and make beautiful bouquets.



A & M Giant Ebelle Poppy

### NEW TALL DOUBLE POPPIES

**A & M Giant Ebelle**—Salmon shades—magnificent poppy similar to double peony in form and bearing huge flowers of salmon shades. We consider this one of the finest double annual poppies yet offered. Pkt. 25c, ¼ oz. 65c.

**A & M Giant Ebelle White**—Flowers a beautiful white, otherwise similar to the preceding variety. Pkt. 15c, ¼ oz. 50c.

### Double Flowered Poppies

These flowers are large and double. A very beautiful bed or border may be had by growing any of these separate colors.

**Double Rose**—Bright rose pink. Pkt. 10c, oz. 35c.

**Double Vermillion Red**—Pkt. 10c, oz. 35c.

**Double Shrimp Pink**—Pkt. 10c, oz. 35c.

**Carnation Flowered Double Mixed**—Choice assortment of brilliant colors. Flowers very double and well fringed. The plants grow to a height of four feet and bear immense carnation-like blossoms 6 to 8 inches across. Annual. Pkt. 15c, oz. 40c.

**Peony Flowered Double Mixed**—Annual. Immense double globular flowers. Splendid for bedding and massing. Choice mixture. Pkt. 10c, oz. 35c.

**Collection No. 41F**—One packet each of the above named five varieties of double poppies, 35c.

### Perennial Poppies

**Oriental Hybrids Mixed**—These tall stately Poppies have immense flowers in the most gorgeous colors. Height 2½ ft. Our seed has been saved from the choicest new hybrids. Pkt. 10c.

**Nudicaule, Iceland Poppy**—A beautiful class of perennial poppies. Sow in March and they will flower the same year. The beautiful large blossoms are borne on wire-like stems above the fern-like foliage, with a great variety of colors. The Iceland Poppy has more lasting qualities as a cut flower, than any other poppy.

**Single Mixed**—Pkt. 10c. **Double Mixed**—Pkt. 25c.

### Single Annual Shirley

The most charming poppy in cultivation. The blossoms are bright and snowy and include an almost endless variety of colors, from pure white, pink, terra cotta, salmon, chamols and rosy carmine, to brilliant crimson, many of the flowers being beautifully flaked or edged with white.

**Rose Pink**—A fine large flower. Pkt. 10c.

**Picotee**—White cup, scarlet edged. Pkt. 10c.

**A & M Shirley**—Fine mixed. Pkt. 10c, oz. 30c.

**Flanders Poppy**—The famous poppy of Flanders Field. A single annual of blood red color. Abundant in the fields of Europe. Pkt. 10c, ¼ oz. 25c.

**Tulip Poppy (Glaucum)**—Resembles the tulip in form. Color a dazzling scarlet and very effective for beds or masses. Pkt. 10c, ¼ oz. 25c.

**American Legion**—A grand new poppy. The color is brilliant orange scarlet with yellow anthers. The flowers are three times the size of the ordinary Shirley Poppy. They grow about 2 to 3 feet high and should be planted where they are to flower. They give the best effect when grown in masses or beds. Pkt. 10c, ¼ oz. 25c.

### Double Annual Shirley

**Eldorado Double Shirley**—A new and lovely variety of Shirley poppies in a variety of wonderful colors. Each flower has many full petals giving the double appearance. A bed of these poppies would be a delight to any lover of flowers. Pkt. 10c, ¼ oz. 25c.

**Ranunculus Flowered**—This variety of double Shirley was so named because of its resemblance to Ranunculus. It is a lovely flower and keeps well in water if cut before buds are fully opened. Pkt. 10c, ¼ oz. 30c.



Single Shirley Poppy

### PAINTED DAISIES (Annual Chrysanthemum)

These hardy annuals are very showy and effective garden favorites. They grow to a height of about 2½ feet, producing a profusion of very lovely daisy-like flowers. In some of the varieties, as may be noted below, contrasting colors are produced in zones, these zones being well defined and of bright colors. They are easily grown, excellent for cutting purposes and are used freely in California as a florist cut flower. They do not require much water.

**Burridgeanum**—Pure white with scarlet zone and yellow inner zone. Pkt. 10c, ¼ oz. 25c.  
**Chameleon**—Golden yellow with scarlet zone. Pkt. 10c, ¼ oz. 25c.  
**Eastern Star**—Primrose with brown disc. Pkt. 10c, ¼ oz. 25c.  
**Evening Star**—Pure golden yellow. Pkt. 10c, ¼ oz. 25c.  
**Northern Star**—Large white, yellow zone. Pkt. 10c, ¼ oz. 25c.  
**Sultan**—Red with yellow zone. Pkt. 10c, ¼ oz. 25c.  
**Gladstone**—Pink with crimson zone. Pkt. 10c, ¼ oz. 25c.  
**Collection No. 12F**—One packet each of the above seven varieties, 50c.

**A & M Mixed Painted Daisies**—All colors. Pkt. 10c, oz. 50c.

# A & M PETUNIA



Giants of California

A splendid race of plants, rich and varied colors, and profuse flowering with their charming and tender looking flowers, they are very beautiful for groups in the open. Sow seed early in spring, scatter thinly on an even surface and barely cover the seed with sand. If intended for the open ground, plant out into a frame to be kept until planting-out time. If for pots, pot singly into small pots in strong rich soil mixed with sand and shift as the plants grow larger.

In starting Petunia seed it is well to remember the rule that small flower seeds should be planted to a depth of about twice the breadth of the seed itself, which means that these should be merely pressed into the soil and receive a very light covering of sand. A burlap bag placed on top the seed bed will assist in germination. Remove the bag when sprouts appear and keep thoroughly moist. Dust with sulphur to prevent "damping off". When planting out double or ruffled varieties it is advisable to use the smaller plants in preference to the strong ones.

## FANCY DOUBLE VARIETIES

**Superb Double Fringed Mixed**—One of the finest strains of Petunias in existence. The double flowers are very large, full and symmetrically formed, having the edges of the petals beautifully fringed. Pkt. 50c.

**Carnation Flowered**—Medium growing variety and very floriferous. The exquisite carnation like flowers range from light pink to deep rose. Excellent for pot culture as well as open ground. Pkt. 50c.

## RUFFLED AND FRINGED VARIETIES

**Theodisia**—Very fascinating fringed petunia of a soft rose pink, beautifully veined. Pkt. 50c.

**Copper Rose**—Extremely attractive color and a distinctly new shade in the Ruffled Giants. Pkt. 50c.

**Romary Lass**—Very striking color of deep crimson with striped purple throat; ruffled. Pkt. 50c.

**Pink Triumph**—Elegant large flowers of a clear pink and delicately fringed; very attractive. Pkt. 35c.

**Giants of California**—A California introduction. An extremely fine type of this well known flower. A mixture which will be appreciated by all growers of Petunias. Pkt. 35c.

**Giants of California, Yellow Throated**—A specially reselected mixture of Giant

Fringed. The flowers are large and ruffled in pleasing light shades, all having yellow throats. Pkt. 35c.

**Ruffled Giants**—A beautiful, deep throated new strain with flowers that are ruffled, fluted and fringed. Solid intense colors. Pkt. 25c.

**New Dwarf Giants**—This is by far the best strain for pot culture. The plants are compact, bearing large, colorful flowers with open throats well marked and veined. Pkt. 50c.

## PETUNIA COLLECTION

No. 1—75c

One each of Lord Courtenay, Giants of California and Superb Double Fringed Mixed.

## PETUNIA COLLECTION

No. 2—40c

Bed and Border Combination

One each of Nana Erecta Snowball, Nana Erecta Rosy Morn and Nana Erecta Viola.

## STANDARD BEDDING VARIETIES

**Nana Erecta Rosy Morn**—Of the same compact growth as Nana Erecta Snowball, but of lovely pink color with contrasting white throat. An improved strain. Pkt. 20c.

**Nana Erecta Viola**—A new strain. This is a fine deep violet, the texture of the flower is like velvet and the plant grows erect and compact, like all of this class. Pkt. 20c.

**Nana Erecta Snowball**—The plants are erect and compact and are specially adapted for borders. The flowers are large in constant bloom. Pkt. 15c.

**Lord Courtenay**—A fine brilliant rose color with yellow throat. One of the finest varieties we offer. The flowers are large and showy and produced abundantly on large sturdy plants. Pkt. 15c.

**Howard's Star Improved**—Large velvety purple with a white star. Makes a very striking and attractive bed or border. Pkt. 15c.

**General Dodds**—A rich, blood red; this is a fine color. The flowers are large and erect and the plants large and free blooming. Pkt. 10c.

**Grandiflora Single Mixed**—Exceedingly handsome and free flowering, containing the greatest variety of colors, yellow throated, veined and blotched. Very large flowers. Pkt. 15c.

**Hybrida Fine Mixed**—A good Petunia for mazing in beds and borders, yielding a profusion of brilliantly marked flowers. Pkt. 10c.

## BALCONY PETUNIAS

Used extensively in California for training up on lattice-work, fences, etc. In the Los Angeles City parks they have been used very effectively as pillars, standing 5 to 7 feet high. Balcony Petunias are a large free flowering type and they make a gorgeous display over a long season. May be used also for window boxes and large vases.

**Balcony Blue**—Deep velvety..... Pkt. 20c

**Balcony Rose**—Deep rose..... Pkt. 20c

**Balcony Crimson**..... Pkt. 20c

**Balcony White**..... Pkt. 20c

Collection No. 30F—One packet each of the above four named varieties, 65c.



Theodisia





Phlox Drummondii

**PORTULACA (Moss Rose)**

Beautiful race of dwarf plants for rock work or dry sunny locations, bearing glossy cup-shaped blossoms in brilliant colors. Annual.

**Double Mixed**—Saved from the finest flowers only, and will produce a large percentage of doubles. Pkt. 15c.  
**Single Mixed**—Large flowers. Pkt. 10c.

**POTENTILLA**

**Wilmottiana**—This flowering strawberry is remarkable for its distinct color—a very bright cerise-pink. Grows 15 inches high and flowers over a long period during the summer. Perennial. Pkt. 25c.

**RANUNCULUS**

**Giant French Mixed**—This very popular flower may be grown readily from seed though home gardeners have usually grown them from bulbs. The seed should be sown in good sandy loam, covered lightly with sand and kept moist. May be planted from early fall to January and will flower the first season from seed. Our mixture is a very fine semi-double strain and contains a splendid range of colors. Pkt. 25c, 1/4 oz. 75c.

**RHODANTHE**

**Maculata Rosea**—One of the most attractive everlasting flowers. The flowers hang like little bells on the stems and make a pleasing and dainty cut flower either fresh or dried. Pkt. 10c.

**RICINUS (Castor Oil Plant)**

Effective for semi-tropical garden. Easily raised from seed, and should be grown in deep rich soil.

**Sanguineus**—Blood red stalks and red fruit. Height 8 feet. Pkt. 10c, oz. 25c.

**Zanzibariensis**—The giant type of the Castor Bean. Foliage varies in shades of color during the different stages of growth. Being a strong grower very suitable as a windbreak. Pkt. 10c, oz. 35c.

**Mixed Varieties**—Pkt. 10c, oz. 25c.

**ROMNEYA COULTERII (California Tree Poppy)**

Also well known as the Matilija Poppy; perennial. It is of value as a cut flower, lasting well in the water, and its delicate primrose like perfume is most acceptable. They never lose the crumpled folds that in the case of most poppies betoken newly opened state. Flowers are four to five inches across, pure white, with a fine bunch of yellow stamens, resembling white, single Paeonies. Pkt. 15c.

**PHLOX DRUMMONDII**

One of the most beautiful and easiest grown of our hardy garden annuals. The flowers are produced in large trusses and may be had in many lovely colors. The seed may be sown in boxes and transplanted when danger of frost is over or may later be sown in the open. They make a very effective show when grown in masses or borders.

**Large Flowering Grandiflora**—A fine type having large heads of bloom and growing 15 inches in height. This variety may be used for cutting.

	Pkt.	1/4 oz.
Scarlet	10c	50c
Yellow	10c	50c
Light Rose	10c	50c
Lilac	10c	50c
Rosy Chamis	10c	50c
White	10c	50c

**Collection No. 29F**—One packet each of the above six named varieties. 50c.

**Drummondii Mixed**..... 10c 35c  
**Large Flowering Dwarf**—This type has the large individual blooms of the Grandiflora but the growth of the plant is compact and dwarf attaining a height of 8 inches. Effective for parkings and low borders. **Mixed**. Pkt. 10c, 1/4 oz. 35c.

**Star Phlox**—A dwarf variety bearing star shaped blossoms in great abundance. Pkt. 10c, 1/4 oz. 35c.

**Perennial Mixed**—The bright colored flowers make a pleasing border. Seed is slow in germinating and from fall sowings seedlings will often not show until following spring. Pkt. 25c.

**PYRETHRUM**

Hardy perennials which are easily grown and make handsome plants.

**Hybridum**—This variety is a tall vigorous grower and flowers freely. The flowers are daisy-like and the colors vary from rose, pink and cream to white; all have yellow centers. They make very desirable cut flowers, keeping well in water. **Single Mixed**—Pkt. 10c, 1/4 oz. 75c.

**Double Mixed**—Produces a fair percentage of doubles. Pkt. 25c.

**Golden Feather**—Fine compact habit of growth, with bright yellow foliage, largely used for edgings and ribbon borders. Height, 9 inches. Pkt. 10c.

**RUDBECKIA**

**Bicolor Superba**—These hardy annuals are of easy culture and produce an abundance of flowers. The flowers have a cone in the center surrounded by yellow and brown petals. These bright flowers are borne gracefully on long stems, and are especially recommended for cutting. Pkt. 10c.

**SALVIA (Scarlet Sage)**

A tender perennial blooming the first year from seed. They make gorgeous plants, the brilliant red blossoms are borne on long stems in racemes or spikes and are displayed with striking effect against the deep green foliage.

**Splendens**—Height 3 feet. Pkt. 10c.  
**Bonfire**—Compact bush 2 feet in height. Pkt. 10c.  
**Fireball**—Height 3 feet. Pkt. 10c.

**SALVIA FARINACEA**

A hardy perennial. The spikes of bright light blue flowers rise above the foliage in an almost continuous mass of bloom. The flowers are excellent for cutting and the plants may be used for beds, borders, or as specimen plants among shrubs. Pkt. 15c.

**SALVIA AZUREA**

A beautiful hardy perennial producing spikes of pretty sky blue flowers in great profusion. Height 2-3 feet. Pkt. 15c.



Pyrethrum, Single



Salpiglossis

## A & M SCABIOSA

### Large Flowering Annual Varieties

**Mourning Bride, Pin Cushion**—An old garden favorite and which has been much improved recently.

The flowers are large and vary from a lovely light blue to deepest red. They are borne on long graceful stems and produce abundantly from spring until autumn. They are especially recommended for cutting. Easy to grow by starting in flats or cold frames and transplanting. Sow seed in boxes and transplant or sow in open ground after frost is over, and thin to 15 inches apart. Height 3 to 4 feet.

**Scabiosa Shasta**—A new and most wonderful pure white Scabiosa, bearing huge flowers on long graceful stems. Most suitable for cutting. Easy to grow by starting in flats or cold frames and transplanting. Pkt. 20c.

**Peach Blossom**—New light pink variety. The flowers are very large, and this with A & M Shasta Scabiosa has gained the attention of flower growers in Southern California. Pkt. 20c.

	Pkt.	¼ oz.
Ageratum Blue—Medium blue.....	10c	30c
Azure Fairy—Light blue.....	10c	30c
Black Prince—A deep red.....	10c	30c
Flesh Color—A soft flesh pink.....	10c	30c
Fiery Scarlet—A brilliant color.....	10c	30c
Rose—Soft Rose.....	10c	30c
Snowball—Pure White.....	10c	30c
Yellow—Light yellow.....	10c	30c

Collection No. 34F—One packet each of the above named eight colors, 60c.

Mixed—A mixture of all shades..... 10c 25c

### Hardy Perennial Scabiosa

Perennial Scabiosa are highly decorative and invaluable for cutting, lasting a long time in water. Seed should be planted in the fall for preference, but if sown in early spring the plants will bloom the first season. Height from 2-3 feet.

**Isaac House Hybrids**—This new hybrid strain is a great improvement over the Caucasica variety. The flowers are large with ruffled petals and range in color from white to darkest blue—lilac and mauve predominating. Pkt. 35c.

**Columbaria**—Flowers of this beautiful new scabiosa are 2-2½ inches across borne on long slender stems. The attractive pink shades are decidedly novel in a perennial scabiosa. Pkt. 35c.

**Caucasica**—The plants grow 2-2½ feet high and produce handsome flowers 3-4 inches across in a soft lavender or heliotrope shade. Pkt. 25c.

**Japonica**—A variety from Japan bearing large lavender blue flowers in great profusion. Height 3 ft. Pkt. 10c.

## A & M SALPIGLOSSIS

### Painted Glories

Highly ornamental half-hardy annual with large veined, funnel-shaped flowers; much prized for cutting; very showy in beds or border. A bed of these beautiful plants is one of the most striking features of the garden during June, July and August. Salpiglossis may be had in separate colors as well as mixed and very wonderful effects are possible with either one color or a combination of two or three of these separate varieties.

Brown and Gold .....	Pkt. 25c
Velvety Red .....	Pkt. 25c
Velvety Violet .....	Pkt. 25c
Crimson and Gold .....	Pkt. 25c
Light Blue and Gold .....	Pkt. 25c
Rose and Gold .....	Pkt. 25c
Scarlet and Gold .....	Pkt. 25c
Violet and Gold .....	Pkt. 25c
Primrose .....	Pkt. 25c
Faust Black .....	Pkt. 25c
White and Yellow .....	Pkt. 25c

Collection No. 32F—One packet each of the best four varieties 75c.

**Superbissima Mixed**—Containing many lovely color combinations. Pkt. 25c, ½ oz., 50c.

## SWEET WILLIAM (Dianthus Barbatus)

A hardy perennial blooming the second year from seed. Grows one to two feet high and bears its flowers in clusters at the end of a stiff stem. The individual flowerets are handsomely colored and marked. It makes a beautiful bedding plant, and is of easy culture.

**Single Mixed**—Very attractive. Pkt. 10c.

**Double Mixed**—Pkt. 10c.

**Annual Single Mixed**—A fine mixture blooming the first year from seed. Pkt. 10c.



Scabiosa—Isaac House Hybrids



# CALIFORNIA SWEET PEAS

Ask for Sweet Pea Culture, Bulletin No. 11

Sweet Peas are a particular pride of California. Hundreds of acres may be seen in solid fields in the seed producing sections and they are a beautiful sight to behold. Grown under ideal climatic conditions the seed is generally recognized as being superior in high percentage of germination and extraordinary vitality. Magnificent flowers borne on long stems predominate in the best varieties introduced from the Golden State, and without exception they please the most discriminating growers and Sweet Pea enthusiasts. From the hundreds of varieties in commerce we have confined ourselves to what we consider the most outstanding sorts covering a complete range of color.

## A & M Early Flowering Spencer Sweet Peas

Early or Winter Flowering Spencer Sweet Peas come into bloom at least one month earlier than the Late or Standard Spencers. For this reason they are particularly suitable for sowing in August and September for early Fall and Christmas blooming. However, the planting season in California extends from August 1st until January with a resultant wealth of bloom throughout the Spring and early Summer.

FOR BEST RESULTS INOCULATE SWEET PEA SEED WITH McQUEEN'S CULTURE (Dust Kote). Per pkt. 15c.

We consider McQueen's the best seed inoculant on sale today.

## New and Distinctive Varieties

**Bright Light**—One of the most vivid colors in Sweet Peas—a flaming scarlet. The flowers are of large size and good form. Pkt. 25c.

**Early Duplex Pioneer**—Vines are of vigorous growth, producing frequently four beautifully duplexed flowers on one stem. Color is rose pink on cream ground. Pkt. 35c.

**Early Mammoth Rose**—Beautiful rose pink variety. The immense blooms four and five on a stem, are indispensable for exhibition purposes. Pkt. 35c.

**New Blue**—A splendid variety with large well frilled flowers of deep blue—a color which is always popular. Pkt. 25c.

**Collection 46F**—One packet each of the above four distinctive varieties \$1.00.

*I have had the most marvelous Sweet Peas from your seed for the past three winters and my neighbors all rave over their beauty and size.*

—Mrs. H. P. T., Whittier, Calif.

## General List

ALL WHITE—Largest waved pure white.	Pkt. 15c, 1/2 Oz. 45c
AMETHYST—Light purple. Very fine.	Pkt. 15c, 1/2 Oz. 45c
ANGELUS—Salmon-Pink on cream ground.	Pkt. 15c, 1/2 Oz. 45c
AVIATOR—Dazzling crimson scarlet.	Pkt. 15c, 1/2 Oz. 45c
BALL'S BLUE—Medium blue. Large and free blooming.	Pkt. 15c, 1/2 Oz. 45c
BALL'S ROSE—Sparkling dark rose.	Pkt. 15c, 1/2 Oz. 45c
BLUE BIRD—Violet blue. Extra large and one of the finest.	Pkt. 15c, 1/2 Oz. 45c
CHEVALIER—Bright rose. Strong grower.	Pkt. 15c, 1/2 Oz. 45c
COLUMBIA—Salmon rose. Standard with white wings.	Pkt. 15c, 1/2 Oz. 45c
FAIR MAID—Blush pink suffused salmon.	Pkt. 15c, 1/2 Oz. 45c
FLAMBEAU—Orange cerise. A bright and attractive color.	Pkt. 15c, 1/2 Oz. 45c
GLITTERS—Cerise. One of the most popular for all purposes.	Pkt. 15c, 1/2 Oz. 45c
GRENADIER—Dazzling scarlet. New and extra fine.	Pkt. 25c, 1/2 Oz. 75c
HARMONY—Finest lavender to date. Strong grower, extra large flowers and exceedingly long stems.	Pkt. 15c, 1/2 Oz. 45c
HERCULES—Florist pink. Extra large, strong grower, fine stem.	Pkt. 15c, 1/2 Oz. 45c
ILLUMINATION—Salmon cerise. A popular favorite. Good.	Pkt. 15c, 1/2 Oz. 45c
IMPERIAL PINK—Clear pink flowers. Very vigorous grower.	Pkt. 25c, 1/2 Oz. 75c
MAUVE BEAUTY—Rosy mauve. A distinct color.	Pkt. 15c, 1/2 Oz. 45c
MISS LOUISE GUDE—Brilliant pink. Fine exhibition and commercial variety.	Pkt. 15c, 1/2 Oz. 45c
ORANGE KING—Glowing intense orange. The deepest orange we know.	Pkt. 25c, 1/2 Oz. 75c



## Early Flowering Spencer Sweet Peas--Continued

OTHELLO—Maroon. Strong grower, large flowers and good long stem.....	Pkt. 15c, ½ Oz. 45c
PENROSE—Clear rose pink. Handsome variety .....	Pkt. 15c, ½ Oz. 45c
PINK CHEROKEE—New. Pink suffused salmon, cream ground. Many stems with four flowers .....	Pkt. 15c, ½ Oz. 45c
PERFECTION—Rose. Good strong grower with fine flower and stem .....	Pkt. 15c, ½ Oz. 45c
ROSE CHARM—Large bright rose.....	Pkt. 15c, ½ Oz. 45c
ROSE DORE—Rose pink suffused orange.....	Pkt. 15c, ½ Oz. 45c
SNOWSTORM—Improved pure white.....	Pkt. 15c, ½ Oz. 45c
SPRINGSONG—Light rose suffused salmon.....	Pkt. 25c, ½ Oz. 75c
SWEET LAVENDER—New lavender. Pure self lavender and very fine .....	Pkt. 15c, ½ Oz. 45c
THE BEAUTY—Fiery rose. No other color just like this one.....	Pkt. 15c, ½ Oz. 45c
TORCH—Salmon orange. A fine sweet pea in every way .....	Pkt. 15c, ½ Oz. 45c
TRUE BLUE—Medium blue. Good size and good stem .....	Pkt. 15c, ½ Oz. 45c
VULCAN—Vivid scarlet. A flower with some life to it. Glistening.....	Pkt. 15c, ½ Oz. 45c

WHITE ROSE—Large pure white; long stem, Pkt. 25c, ½ Oz. 75c  
ZVOLANEK'S ROSE—Giant rose pink, vigorous, extra large flowers and exceedingly long stems. Fine exhibition.....Pkt. 15c, ½ Oz. 45c

A & M EARLY FLOWERING SPENCER MIXED—A well balanced mixture of many fine varieties including some of the late introductions and improved strains. Plant one ounce to a 30 ft. row. Pkt. 15c, ½ Oz. 40c, Oz. 75c, ¼ lb. \$2.50, lb. \$7.50.

### Rainbow Collection No. 1

6 packets of Early Flowering Spencer and 1 packet McQueen's Culture 75c

One packet each—Vulcan, Snowstorm, Harmony, Miss Louise Gude, The Beauty, Othello.

### Rainbow Collection No. 2

12 packets of Early Flowering Spencer and 1 packet McQueen's Culture \$1.50

One packet each—Aviator, Columbia, Flambeau, Hercules, Illumination, Mauve Beauty, Rose Dore, Harmony, All White, True Blue, Torch, Othello.

## Standard Giant Spencers

### For Spring and Summer Blooming

The Giant Spencers listed below are particularly recommended for spring and summer blooming and will thrive in any climate where other sweet peas will grow.

This strain of Sweet Peas bears three and four very large flowers on long, stiff stems. Many of the flowers are ruffled and wavy and the great assortment of shades makes them a remarkable strain for all purposes.

AUSTIN FREDERICK—Lavender, a wonderful exhibition variety .....	Pkt. 10c, Oz. 40c
BARBARA SALMON—One of the most satisfactory in this color.....	Pkt. 10c, Oz. 40c
BLANCHE FERRY—Red and White. Always a popular sort.....	Pkt. 10c, Oz. 40c
CHARMING—Rose Cerise. Refined shade and splendid form .....	Pkt. 10c, Oz. 40c
COMMANDER GODSALL—Blue. The nearest violet blue we know. A very fine one.....	Pkt. 10c, Oz. 40c
CRIMSON KING—Crimson. Deep rich color and very large .....	Pkt. 10c, Oz. 40c
DEFIANCE—Orange. Glowing orange scarlet. Does not sunburn easily.....	Pkt. 10c, Oz. 40c
FIERY CROSS—Orange Cerise. A bright color which does not sunburn easily.....	Pkt. 10c, Oz. 40c
GEORGE SHAWYER—Salmon Rose. Very large flower. Excellent.....	Pkt. 10c, Oz. 40c
HAWLMARK PINK—Beautifully frilled, large, rose pink flower.....	Pkt. 10c, Oz. 40c
HEAVENLY BLUE—New. Delphinium blue, very large and good stem .....	Pkt. 10c, Oz. 40c
ILLUMINATOR—Salmon orange. One of the very popular varieties.....	Pkt. 10c, Oz. 40c
KING WHITE—Large wavy white.....	Pkt. 10c, Oz. 40c
MARY PICKFORD—New pink. Dainty cream pink suffused salmon .....	Pkt. 10c, Oz. 40c
MATCHLESS—Best cream .....	Pkt. 10c, Oz. 40c
MISS CALIFORNIA—Orange salmon. Petals are ruffled and the flower is exceedingly attractive .....	Pkt. 10c, Oz. 40c
MRS. ARNOLD HITCHCOCK—Salmon pink. Pale pink flushed salmon. Good flower and stem .....	Pkt. 10c, Oz. 40c
POWERSCOURT—Lavender. One of the finest, Vigorous .....	Pkt. 10c, Oz. 40c
ROBERT SYDENHAM—Orange salmon. A fine large orange self.....	Pkt. 10c, Oz. 40c
ROSABELLE—Rose. Lovely waved rose flower of good substance.....	Pkt. 10c, Oz. 40c
ROYAL SCOTT—Orange scarlet. No other color just like this. Glistening.....	Pkt. 10c, Oz. 40c
SNOWBALL—Beautiful new white. Large frilled flowers. Very fragrant .....	Pkt. 10c, Oz. 40c
TANGERINE—Glowing orange. Ours is a greatly improved strain.....	Pkt. 10c, Oz. 40c
THE CARDINAL—Scarlet. Intense poppy scarlet. Striking .....	Pkt. 10c, Oz. 40c
WARRIOR—Maroon. Color is deep, flowers large and stem extra long.....	Pkt. 10c, Oz. 40c

YOUTH—Large white and pink picotee. Very attractive.....Pkt. 10c, Oz. 40c

A & M GIGANT SPENCERS MIXED—One of the finest and best balanced mixtures grown. All strong growers and good varieties. Pkt. 10c, Oz. 30c, ¼ lb. \$1.00, lb. \$3.00.

### Rainbow Collection No. 3

6 packets Standard Giant Spencer and 1 packet McQueen's Culture 50c

One packet each—Robert Sydenham, Youth, Rosabelle, King White, Powerscourt, Crimson King.

### Rainbow Collection No. 4

12 packets Standard Giant Spencer and 1 packet McQueen's Culture \$1.00

One packet each—Barbara, Blanche Ferry, Commander Godsall, King White, Fiery Cross, Hawlmarm Pink, Illuminator, Matchless, Royal Scott, Warrior, The Cardinal, Austin Frederick.

### CUPID SWEET PEAS

These Sweet Peas make the most brilliant and showy parkings, beds and low borders imaginable. They make a uniform growth about 8 inches high and each plant is about 1 foot in diameter. They will bloom freely for several months. The culture is the same as for the climbing variety but for a solid mass plant the rows 15 inches apart.

Mixed—Pkt. 10c each, oz. 30c.



A&M

INOCULATE SWEET PEA SEEDS WITH McQUEEN'S CULTURE (Dust Kote) TO IMPROVE THEIR GROWTH—15c



## SCHIZANTHUS

Very beautiful and interesting annuals. This is one of the easiest annuals to raise from seed. Sow in open where plants are to flower. Exceptionally beautiful when in full bloom and literally covered with small orchid-like flowers.

**Grandiflora Mixed**—Pkt. 25c.

**Wisetonensis Excelsior**—Exceptionally large flowered mixture. Pkt. 25c.

## STATICE

**Sinuata**—An everlasting flower which is increasing in popularity. The plants throw large sprays of flowers which may be dried and make fine winter bouquets. It may be planted both in the spring and late summer. The seed should be kept quite moist until germinated.

	Pkt.	Oz.	Rosea Superba	Pkt.	Oz.
Blue	.....10c	60c	White	.....10c	50c
Bright Yellow	.....10c	60c	Mixed	.....10c	50c

**Caspia**—A lovely variety having blue minute flowers borne in long sprays, which is much used to mix with other flowers because of its dainty graceful effect. Is a hardy perennial flowering during the summer and early fall. May be dried as an everlasting flower and becomes white when dried. Pkt. 10c.

**Latifolia**—This variety produces large branching sprays of minute lavender-blue flowers that are invaluable for cutting. May also be dried and used with everlasting flowers. A perennial. Pkt. 10c.

**Perezii**—A hardy perennial. The leaves are large and glossy and the flower stalk grows to a height of 2 feet or more above the leaves and is crowned with a mass of small violet blue flowers. This variety is popularly grown among shrubbery and as specimen plants. Pkt. 10c.

## SCARLET RUNNER

A variety of climbing bean having rich scarlet blooms and most useful for decorative purposes in covering arbors and unsightly structures. The pods are also appreciated as an addition to the vegetable list. Pkt. 10c.

## STACHYS LANATA (Lambs' Ears)

Very striking silvery leaved plant, useful for edgings and rock gardens. A robust grower withstanding heat and drought. Hardy Perennial. Height 6 inches. Pkt. 25c.

## THUNBERGIA

## (Black Eyed Susan)

A free blooming annual climber with attractive green foliage. It is also used extensively in hanging baskets, window boxes, etc. The flowers are small in varied colors of yellow, orange and white with black eyes. Finest mixed. Pkt. 10c.

## TRITOMA

**A & M Luminous Hybrids**—Sometimes called Red Hot Poker. Flowers range in color from deep Yellow to Coral, Orange and Scarlet with some very striking combinations. Easily grown from seed by planting in flats and keeping thoroughly moist until germinated. Transplant when three or four leaves are formed. Pkt. 35c.



Schizanthus, Wisetonensis

## SHASTA DAISY

See Daisy.

## SNAIL VINE

See Phaseolus Caracalla.

## SNAPDRAGON

See Antirrhinum.

## SENSITIVE PLANT

An interesting plant, the leaves of which close when touched; elegant foliage; flowers pink. Pkt. 10c.

## SANVITALIA PROCUMBENS

**Double**—Hardy annual producing pretty small double yellow flowers in abundance throughout the summer. Grows six inches high and is suitable for edgings and rockeries. Pkt. 15c.

## SILENE (Catchfly)

**Pendula Compacta**—Bright double rose colored flowers produced in great abundance on dwarf compact plants. Very excellent for borders, masses and recommended for carpet bedding on bulb beds. Pkt. 10c.

## SMILAX

A perennial vine which thrives best in a shady location. Very useful for decorative purposes. Pkt. 15c.

## STEVIA

**Serrata**—Small fragrant white flowers borne in large heads which are valuable for cutting. A free blooming perennial of easy culture. Pkt. 10c.

## SUNFLOWER (Helianthus)

Stately, hardy, annuals of easy culture. Useful for background or as a fence and often grown for the seed. Height, 6 to 8 feet.

**Maroon Prince**—A dwarf strain of dark red Sunflower. It is true Maroon in color and makes a striking decoration for large vases. Pkt. 10c.

**Extra Dwarf White Seeded**—Very dwarf growing variety. The chrysanthemum like flowers are golden yellow in color. Pkt. 10c.

**California Double**—Large, massive, bright yellow flowers, height 6 feet. Pkt. 10c.

**New Red Sunflower**—The plant is of a freely-branching habit with well-shaped dark-centered flowers of bright chestnut red, merging to a yellow at the tips of the petals. Height 6 feet. Pkt. 10c.

**Mammoth Russian**—Is planted largely for seed. It also makes a good windbreak and a very ornamental background. Requires little attention. Pkt. 10c.

**Autumn Glory**—The flowers are about 2 inches in diameter with bright yellow petals and a dark center. The plant grows about six feet tall and branches like a giant cosmos. During September and October each plant is a gorgeous mass of bloom. When the plant has finished blooming cut away the old stalks and in the winter the new growth will start from the old roots again. The seed may be planted in the fall or spring. Pkt. 10c.

## THALICTRUM

**Dipterocarpum**—The foliage somewhat resembles that of the Columbine and the large feathery heads of rose colored flowers are borne on long stems above the foliage. They bloom through the summer and attain a height of about 4 feet. An excellent perennial. Pkt. 25c.

## TITHONIA SPECIOSA

(Mexican Sunflower)—Tall growing plant usually grown as an annual. Very desirable as a background to borders. Flowers are similar to single Dahlias and are a striking orange red color. Sow seed in spring when soil is warm. Pkt. 25c.

## TUNICA SAXIFRAGA

An exceedingly pretty plant for rock gardens. The tiny star-like pale pink flowers are produced profusely the whole summer on rounded clumps. Hardy perennial. 1 foot. Pkt. 15c.



Sunflower, California Double

## A & M STOCKS

The Stock is one of the many popular plants used for bedding. For brilliancy and diversity of color, fragrance and duration of bloom it is unsurpassed. Sow the seed in pans or boxes and transplant when large enough to an open, sunny location. When transplanting take the plants as they come and do not pick out the large ones. It is also a good idea to plant rather thickly so that the single can be weeded out as they appear. Stocks are one of our best winter blooming plants. May be planted from August to March for a succession of winter and summer bloom.

### A & M Bismarck Stocks

This wonderful new strain of Stocks is of branching habit, making it possible to break long branches of flowers from the main stalk without injuring or destroying the beauty of the plant. The flowers are large and many of them on a stem. The sweet perfume of the Stocks make them most desirable for garden or for vases and the A & M Bismarck is the very latest improvement.

Bismarck Antique Copper—Hellebore red.....	Pkt. 25c
Bismarck Apple Blossom—Blush.....	Pkt. 25c
Bismarck Chamois—Ivory, tinted rose.....	Pkt. 25c
Bismarck Dark Blue—Near purple.....	Pkt. 25c
Bismarck Fiery Blood Red—Bright red.....	Pkt. 25c
Bismarck Golden Ball—Golden yellow.....	Pkt. 25c
Bismarck Golden Rose—Light golden rose.....	Pkt. 25c
Bismarck Lavender—Light Lavender.....	Pkt. 25c
Bismarck Lilac—Dark Lavender.....	Pkt. 25c
Bismarck Purple King—Dark purple.....	Pkt. 25c
Bismarck Rose—Deep Rose Pink.....	Pkt. 25c
Bismarck White—Pure White.....	Pkt. 25c
Collection No. 33F—One packet each of six selected separate colors, \$1.10.	
A & M Bismarck Mixed—All colors.....	Pkt. 25c, 1/8 oz. \$1.00.

### Early Mammoth Branching Nice

This type is excellent for bedding and borders and is splendid for cutting. We offer fine varieties in separate colors and a choice mixture. Height 18 inches.

Giant American Beauty (Rose Pink).....	Pkt. 15c
Giant Carmine Rose (Abundance)—Large spikes.....	Pkt. 15c
Giant Old Rose (Belle of Naples).....	Pkt. 15c
Giant Chamois and Rose (Golden Sheaf).....	Pkt. 15c
Giant Silvery Lilac (Empress Augusta Victoria).....	Pkt. 15c
Giant Canary Yellow (Monte Carlo).....	Pkt. 15c
Giant White (Mount Blanc).....	Pkt. 15c
Giant Flesh Pink (Beauty of Nice).....	Pkt. 15c
Giant Dark Blue (Summer Night).....	Pkt. 15c
Giant Rosy Lilac (Queen Alexandria).....	Pkt. 15c
Giant Crimson King.....	Pkt. 15c
Collection 42F—One packet each of six selected separate colors, 75c.	
Giant Nice—Finest Mixed. Pkt. 15c, 1/8 oz. 50c.	

### Perpetual Branching

Giant Perfection—This type is of branching habit with long stems, making it very desirable for cutting. The percentage of double is high. Height 2 feet.

Blood Red.....	Pkt. 15c	Flesh Pink.....	Pkt. 15c
Rose Pink.....	Pkt. 15c	White.....	Pkt. 15c
Lilac.....	Pkt. 15c	Mixed.....	Pkt. 15c
Deep Purple.....	Pkt. 15c		
Collection 44F—One packet each of the above 6 separate colors, 75c.			

### Large Flowering Ten Weeks Stocks

A & M Mixed—Pkt. 10c, 1/8 oz. 50c.



A & M Bismarck Stocks

The seeds bought of you last year (A & M Bismarck Stocks) have been beautiful and very much admired.

—Mrs. J. K., Sonora, Calif.

## ROCK GARDENS

Write for Our Free Circular on Rock Gardens

This form of gardening has come greatly to the fore in recent years and this increasing interest prompts us to devote a special section to the subject. In building a rockery it is always well to bear in mind that it should not be stiff and formal, but as near as possible as nature would have it. Throughout the flower seed pages will be found listed numerous rock garden plants and below will be found a summary of these together with other garden plants suitable for the purpose.

### Annuals

- Abronia—Trailing plant with Verbena like flowers. Pkt. 10c.
- Alyssum—Little Gem. Pkt. 10c.
- Anagallis—Height 6 inches. Pkt. 10c.
- Cheiranthus Linifolium—Bright mauve flowers. Pkt. 25c.
- Gamolepis Tagetes—Attractive orange flowers. Pkt. 15c.
- Convolvulus Mauritanicus—Violet blue. Pkt. 25c.
- Leptosiphon—Flowers are very showy. Pkt. 10c.
- Mesembryanthemum Crystallinum—Ice plant, white flowers. Pkt. 10c.
- Nemophila—(Baby Blue Eyes). Pkt. 10c.
- Portulaca—(Moss Rose). Pkt. 10c.
- Sanvitalia Procumbens—Small double yellow flowers. Pkt. 15c.
- Viola—(Tufted Pansies). Pkt. 10c.

### Perennials

- Agaethe—Blue marguerite-like flowers. Pkt. 10c.
- Alyssum—Saxatile Yellow, height 1 foot. Pkt. 15c.
- Armeria—Flowers rose pink. Pkt. 10c.
- Bellis Perennis—Well known English Daisy. Pkt. 10c.
- Candytuft Gibraltarica—Lilac flowers. Pkt. 10c.
- Cerastium Biebersteinii—Pretty narrow white foliage. Pkt. 15c.
- Cheiranthus Allioni—Orange flowers. Pkt. 10c.
- Dianthus Deltoides—Crimson flowers. Pkt. 25c.
- Dianthus Caesius—Rosy pink. Pkt. 15c.
- Erigeron—Mauve blue with yellow centers. Pkt. 15c.
- Forget-Me-Not—Suitable for moist situations. Pkt. 10c.

- Heuchera—Height 1 1/2 feet, crimson flowers. Pkt. 15c.
- Kenilworth Ivy—Little trailing plant. Pkt. 10c.
- Linum Perenne—(Blue Flax), attractive blue flowers. Pkt. 15c.
- Nepeta Mussini—Aromatic plant with lilac blue flowers. Pkt. 25c.
- Polemonium—Bell shaped blue flowers, height 2 feet. Pkt. 10c.
- Petunia—(Balcony varieties), separate colors, of blue, rose, crimson, and white. Each pkt. 20c.
- Stachys Lanata—Striking silver leaved plant. Pkt. 25c.
- Tunica Saxifraga—Tiny star-like pink flowers. Pkt. 15c.
- Verbena Venosa—Flowers rich rosy purple. Pkt. 15c.



## A & M VERBENAS

A hardy perennial of trailing habit and one of the finest and best known for beds, parkings, etc. The colors are brilliant and varied and the new large flowered strains are handsome as cut flowers. The flowers are fragrant and produced freely throughout most of the year. They will stand much neglect after established, requiring but little water. Plant in seed boxes and transplant to a sunny situation, or may be sown in open ground during warm weather.

### Hybrida Mammoth

Blue—Blue shades .....	Pkt. 10c
Defiance Scarlet—Bright scarlet .....	Pkt. 10c
Pink—Pink self .....	Pkt. 10c
Purple—Rich color .....	Pkt. 10c
Yellow—Cream yellow .....	Pkt. 10c
White—Dense heads .....	Pkt. 10c
Firefly—Scarlet with white eye .....	Pkt. 10c
Mixed .....	Pkt. 10c, 1/2 Oz. 65c
Collection 43F—One packet each of the above seven named varieties, 60c postpaid.	

### Hybrida Giants

A new strain of verbenas with the same characteristics as the mammoth except that each flowerlet in the cluster is much larger. This gives the blooming plant a more brilliant effect.	
Lucifer Scarlet—No eye .....	Pkt. 15c
Rosea Stellata—Rose pink with white eye .....	Pkt. 15c
Violaeca Stellata—Deep purple with white eyes .....	Pkt. 15c
Hybrida Giant Mixed .....	Pkt. 15c

### Auricula Eyed Mixed

Brilliant colors, each flowerlet having a large, white eye. A beautiful and striking mixture. Pkt. 10c.

### VERBENA VENOSA

This handsome hardy perennial ranks in the front line as a summer bedding and border plant, and is used extensively for terrace and rock work. Flowers are a rich rosy purple. 1 foot. Pkt. 15c.

### VERBENA ERINOIDES

(Moss Verbena)

Produces a mass of spreading foliage and a profusion of purple headed blooms. Much prized in rock gardens as well as for borders and does well in hot locations. Pkt. 10c.

### VIOLA CORNUTA

"Tufted Pansies"—The flowers are not so large as regular pansies, but bloom so freely that for bedding effect they are unsurpassed. The colors are distinct and they also bloom for a long time.

Blue Perfection—Deep bright blue. Pkt. 15c.

Papilio—Light blue. Pkt. 15c.

Yellow—Pkt. 15c.

Mixed—Pkt. 10c.



Viola

Your seeds are the finest I have ever bought, germinating easily, and the colors are exactly as advertised. The sweet peas I bought from you last fall are well worth mentioning. I did not plant the seed until October, and started picking blossoms in February, not just a few blossoms but enough for my friends as well as for myself. The colors were exquisite.

—C. H. W., Stockton, Calif.



Giant Verbena

*Am sending you an order in appreciation of your catalog which I have received several years. It is an education in itself. I always have wonderful success with your seeds, sure growers.*

—J. E., Redlands, Calif.

### VALERIANA (Garden Heliotrope)

Rubra Mixed—A much prized showy hardy perennial. It bears dense clusters of small heliotrope scented flowers of red or white. Blooms continuously and is easily raised from seed. Pkt. 10c.

### VINCA

Rosea (Madagascar Periwinkle)—An attractive and ornamental plant. Very good for bedding and borders. It is free blooming and makes a fine cut flower, all the buds opening in water. It also makes a fine pot plant. Seed may be sown early in spring in seed boxes or in the open ground after danger of frost is over. Flowers are rose, pink and white. Pkt. 10c.

### VIOLET

Dark blue. Very sweet smelling and probably the most popular of the Violet odorato strain. Pkt. 10c.

### VIRGINIA STOCKS

Very attractive hardy annual, producing a welcome supply of bright colors in the spring and early summer. Largely grown in beds and borders. Height 12 inches. Mixed. Pkt. 15c.

### WALLFLOWER

Delightfully fragrant flowers growing in spikes similar to stocks.

Annual Single Mixed—A beautiful single variety which flowers during the summer from seed sown in the spring. Pkt. 10c.

Perennial Double Mixed—Handsome double flowers. Should be planted in the fall for spring blooming or early in spring for late summer flowers. A fine mixture of colors. Pkt. 15c.

### WILD CUCUMBER VINE

One of the most rapid and vigorous climbers we have. It is invaluable for covering unsightly places and fences. Pkt. 10c.

### WISTERIA

An extremely graceful climber. For trellis and arbor work no other vine can surpass it. Grows readily from seed but plants do not make rapid growth or bloom until well established. Blue. Pkt. 10c.

### XERANTHEMUM

Double Mixed—One of the most attractive and satisfactory everlasting flowers. The flowers are white, purple, yellow and rose and are pretty in the garden or dried. Plant in the open ground in a sunny situation after frost is over. Pkt. 10c.

## A & M CALIFORNIA ZINNIAS

There is perhaps no better illustration of the advancement in plant breeding than the glorious Zinnias grown today. From the small flowers of a few years back have been evolved the marvels of size, color, form and wonderful freedom in flowering which is seen in the latest creations. The Zinnia is one of the most satisfactory flowers to grow through the summer. It is extremely colorful, stands considerable heat and has few pests. As a cut flower it is unexcelled. Seed should not be sown until the soil has become warm in the spring. Cover the sowing with a burlap and do not allow to dry out. Remove the burlap as soon as the seed sprouts.

### A & M DAHLIA FLOWERED

Indicating the excellence of this Improved Strain of Zinnias it was granted an Award of Merit by the Royal Horticultural Society of England, 1924, and it creates a sensation wherever grown. The large size, fullness of petals, extraordinary color range, and good keeping qualities have all contributed to its popularity. The flowers resemble in appearance the Decorative Dahlia and is called the Dahlia Flowered Zinnia for this reason. When in full bloom they often measure five to six inches in diameter. The A & M Dahlia Flowered Zinnia is strictly a California introduction and we cannot recommend it too highly to our friends.

**Attraction**—A distinct shade of brick red forming an immense ball of color when in full bloom. Pkt. 25c.

**Buttercup**—Flower large size, deep creamy yellow. Pkt. 25c.

**Canary Bird**—A delicate shade of primrose. Does not burn in the sun. Pkt. 25c.

**Crimson Monarch**—Bright crimson. The largest of the dahlia-flowered type. Pkt. 25c.

**Dream**—Deep lavender purple, a very beautiful shade. Pkt. 25c.

**Exquisite**—One of the most pleasing shades. Color a light rose with deeper rose center. Pkt. 25c.

**Golden State**—Yellow in bud, turning to a rich orange when in full bloom. Pkt. 25c.

**Illumination**—A deep rose, soft-color. Pkt. 25c.

**Lemon Beauty**—Next to Crimson Monarch in size. Pastel shade of golden yellow on brown. Pkt. 25c.

**Meteor**—A rich glowing deep red and the darkest of all red shades. Good depth of petal. Pkt. 25c.

**Old Rose**—A very fine flower, of a beautiful rose shade. Ranks among the very best. Pkt. 25c.

**Oriole**—Immense flowers of orange and gold. Very fine. Pkt. 25c.

**Polar Bear**—A beautiful pure white flower of the form of a Dahlia. Pkt. 25c.

**Purple Prince**—A fine, deep purple. Large and well formed blooms. Pkt. 25c.

**Scarlet Flame**—Large, beautiful bright scarlet, with a delightful blending of orange throughout the petal. Pkt. 25c.

**Collection No. 39F**—One packet each of ten selected varieties of Dahlia Flowered Zinnias, for a most gorgeous display, \$2.00.

**Special Dahlia Flowered Mixture**—This mixture contains all of the Zinnia novelties and is a most wonderful collection. It will make an excellent garden show and produce fine flowers for cutting. Pkt. 25c, ¼ oz. 75c.

**Dahlia Flowered Mixed**—While this mixture does not contain all of the novelties, its color range is very good and will please you. Pkt. 15c, ¼ oz. 60c, oz. \$1.75.

### A & M CALIFORNIA MAMMOTH TYPE

This magnificent new type of Zinnia promises to rival in size the now universally famous Dahlia Flowered strain. The enormous flowers often measuring 5 to 6 inches across, have smaller centers than the Dahlia Flowered and the petals, while not cupped, are symmetrically formed presenting an extremely graceful appearance.

Unsurpassed as a decoration for large vases.

Cherise Queen—Beautiful cerise rose.....	Pkt. 25c
Enchantress—Light rose, deep center.....	Pkt. 25c
Lemon Queen—Two tone yellow.....	Pkt. 25c
Miss Wilmott—Soft pink.....	Pkt. 25c
Orange King—Burnt orange.....	Pkt. 25c
Orange Queen—Golden Yellow.....	Pkt. 25c
Purity—Beautiful white.....	Pkt. 25c
Rose Queen—Striking bright rose.....	Pkt. 25c
Scarlet Gem—Glowing scarlet.....	Pkt. 25c

**Collection 47F**—One packet each of the above nine named varieties \$1.85.

**California Mammoth Mixed**—Fine mixture of all colors, Pkt. 25c, ¼ oz. 65c.



A & M Dahlia Flowered Zinnia

### GIANT DOUBLE STRAIN

This strain is offered in several colors. The individual blooms do not grow so large as the dahlia flowered type, but they make a very attractive display and the plants are in continuous flower from late spring until well into the fall. All colors mixed—Pkt. 10c, ¼ oz. 40c.

### VICTORY-QUILLED

The petals of this type are peculiarly quilled. Various shades of Rose and Lilac, which when the petals twist, reflect pleasing autumn colors. Pkt. 25c.

### GIANT PICOTEE ZINNIA

This very attractive novelty has taken well among the flower fanciers. The bronze, yellow, pink and crimson shades are well marked with Gold Picotee on the edge of petals. Pkt. 25c.

**Picotee Golden Pheasant**—A new variety. A golden color with edges marked in an attractive shade of bronze; 2 to 3 feet high. Pkt. 25c.

### CURLED AND CRESTED

The flowers of this variety are medium sized and the petals are curled, crested and twisted. A novelty worth growing. The mixture of colors is especially pleasing. Pkt. 10c.

### ZINNIAS—Continued



## ZINNIAS—Continued



A &amp; M Lilliput Zinnias

## Small Flowered Zinnias

## A &amp; M LILLIPUT OR POM PON

Pom Pon Zinnias have deservedly become extremely popular in recent times. The compact bushes grow two feet high and are profusely covered by dainty double flowers on long stems. Makes a wonderful cut flower and compares favorably with the Pom Pon Dahlia for sheer dazzling effect when set in large bowls.

Canary Yellow—Primrose yellow.....	Pkt. 25c
Golden Gem—Golden yellow.....	Pkt. 25c
Salmon Rose—Florists favorite.....	Pkt. 25c
Scarlet Gem—Bright red.....	Pkt. 25c
White Gem—Pure White.....	Pkt. 25c
Pom Pon Mixed—Containing all the colors.....	Pkt. 25c
	1/4 Oz. 50c

Collection 50F—One packet each of the five above named varieties \$1.00.

## HAAGAENA

Of new introduction, dwarf, the plant carrying small, prettily marked flowers. A variety when better known will have a big demand. Pkt. 25c.

## RED RIDINGHOOD

A very pretty compact variety of Zinnia. The small double heads of scarlet shade make a brilliant border and they will be found very useful for cut flowers. Height 1½ to 2 feet. Pkt. 15c.

Medium Flowered Zinnia  
ELEGANS BEDDING ZINNIA

This variety is the most uniform in size of flower and plant. The flowers measure about 2 inches across, have long stems and for bouquets and vase work are both graceful and attractive. Height 2 feet.

Canary Yellow—Bright primrose .....	Pkt. 10c
Crimson—Glowing deep red .....	Pkt. 10c
Fireball—Orange scarlet .....	Pkt. 10c
Flesh Pink—Soft pale pink .....	Pkt. 10c
Snowball—Pure white .....	Pkt. 10c
Salmon Rose—Beautiful shade .....	Pkt. 10c
Scarlet—Bright color .....	Pkt. 10c
Golden Yellow—Deep yellow .....	Pkt. 10c
Dwarf Mixed .....	Pkt. 10c, 1/4 oz. 30c
Tall Mixed—Height 3 feet.....	Pkt. 10c, 1/4 oz. 30c

## A &amp; M CALIFORNIA WILD FLOWER MIXTURE

A splendid mixture of true California annual wild flowers so blended as to give a succession of bloom from early spring to mid-summer. All colors may be found in this mixture. For best results the seed should be sown in a prepared seed bed. They may be planted from fall to early spring—a longer bloom resulting from the fall planting.

If you have a piece of ground you cannot irrigate, or have not time to give particular attention, yet you want to have something beautiful instead of unsightly weeds, we advise you to plant our California Wild Flower Mixture. Five pounds of seed is sufficient to plant an acre. Pkt. 10c, oz. 50c, 1/2 lb. \$2.50.

# TREE AND SHRUB SEEDS

Most tree seeds should be planted during the winter and early spring months. Pine and Conifer seeds in March and April. Sow in boxes of well drained soil and keep in a protected place. A lath house is the best. Water in the morning to prevent seedlings from "damping off." When about two inches high, pot up and grow in pots until large enough to set out.

**ACACIA**—Soak seed in hot water 12 hours before planting.  
**A. Baileana**—30 ft. The most popular. A fast grower with glaucous green foliage. Pkt. 15c, oz. 75c.  
**A. Cultiformis**—"Knife-leaved" Acacia. A fine shrub with glaucous green leaves. Height 15 ft. Pkt. 15c, oz. 75c.  
**A. Dealbata**—40 ft. "Silver Wattle" finely cut foliage. Good for street planting. Pkt. 10c, oz. 60c.  
**A. Decurrens**—80 ft. "Green Wattle." A rapid grower. Can be used as wind-break and is valuable for turner's work. Is rich in tannin. Pkt. 10c, oz. 60c.  
**A. Floribunda**—30 ft. A pretty tree of pendulous habit, quick growth and constantly in bloom. Pkt. 15c, oz. 50c.  
**A. Latifolia**—30 ft. "Golden Wattle." Ornamental; leaves long and rather broad. Pkt. 10c, oz. 60c.  
**A. (Albizia) Lophantha**—30 ft. "Crested Wattle." Rapid grower. Grows in poor soil. Pkt. 10c, oz. 75c.  
**A. Melanoxylon**—25 ft. A compact tree useful for street planting. Wood used in cabinet work. Pkt. 10c, oz. 60c.  
**A. Podalyriaefolia**—Beautiful shrub with masses of flowers. Pkt. 25c, oz. \$1.00.  
**A. Saligna**—Handsome glaucous green, pendulous tree. Hardy and drought resistant. Flowers very beautiful for cutting. Pkt. 15c, oz. 60c.  
**A. Verticillata**—A low growing variety with narrow, needle-like leaves. Suitable for hedges. Covered in spring with golden flowers. Pkt. 25c, oz. \$1.50.  
**A. (Albizia) Julibrissen**—"Silk Tree" Beautiful Shade Tree with fern-like foliage. Covered in summer with feathery pink blossoms. Pkt. 10c, oz. 50c.

**ACER MACROPHYLLUM**—California Maple. 75 ft. A native deciduous tree. Leaves large. Beautiful in autumn. Pkt. 10c, oz. 60c.

**ARALIA Papyrifera**—(Rice Paper Plant)—A desirable plant for tropical effects. Huge lobed leaves and umbels of white flowers make it a very valuable plant in landscape work. Pkt. 25c.

**ARBUTUS UNEDOC**—(Strawberry Tree) 10 feet tall. Dark green foliage, similar to California Holly. Small white bell-shaped flowers followed by red strawberry-like fruits, in December. Pkt. 10c, oz. 60c.

**BAUHINIA PURPUREA**—(Mountain Ebony or Orchid Tree)—A rare and beautiful evergreen tree of medium size. Flowers are huge and range from white to purple. Pkt. 15c, oz. \$1.50.

**BERBERIS AQUIFOLIUM**—(Oregon Grape)—Graceful, ornamental shrub with beautiful holly-like foliage and racemes of golden yellow flowers, followed by purple berries. Pkt. 15c, oz. 75c.

**BERBERIS DARWINII**—Very ornamental dwarf shrub with small holly-like foliage which turns red in winter. Saffron yellow flowers followed by purple berries. Pkt. 25c.

**CALLISTEMON RIGIDUS**—("Bottle Brush")—A graceful tree or large shrub with drooping branchlets. The leaves are narrow, pointed and rigid. Flowers in bottle brush like spikes of deep red. Pkt. 15c, ¼ oz. 50c.

**CAMPORA OFFICINALIS**—"Camphor Tree"—30 ft. An ornamental and attractive tree with shiny green foliage. Pkt. 10c, oz. 45c.

**CASSIA ARTEMISIOIDES**—Shrub. Soft, gray-green, finely cut foliage. Deep yellow sweet scented flowers. Suffers drought. May be used for hedges. Pkt. 15c, oz. \$1.00.

**CASSIA TOMENTOSA**—A quick growing shrub with yellow flowers in winter. Drought resistant. Pkt. 15c, oz. 45c.

**CASSIA NAIROBENSIS**—Leaves are much larger than *Tomentosa*. Large heads of deep yellow flowers. Grows rapidly. Pkt. 25c.

**CASUARINA STRICTA**—(She Oak)—Slender graceful tree resembling a pine. Grows rapidly and resists drought and extremes of heat and cold. Fine for parkings. Pkt. 15c, oz. \$1.00.



Eucalyptus

**CERATONIA SILIQUA**—"St. John's Bread" or "Carob Tree." A very ornamental compact growing tree. Thrives in any soil and will withstand drought. Pkt. 10c, oz. 30c.

**CHAMAECYPARIS LAWSONIANA**—(Lawson Cypress)—One of the most stately of all evergreen trees. Horizontal pendulous branches and flat foliage of soft gray color. Hardy except in dry interior. Pkt. 15c, oz. 60c.

**CHORIZEMA ILICIFOLIA**—A spreading shrub with holly-like foliage and small bell-shaped, orange-scarlet flowers. Blooms in winter and early spring. 100 seeds 30c.

**COPROSMA BAUERII**—A very popular, low-growing shrub with round, glossy, bright green leaves used a great deal in mass against porches and walls. Pkt. 15c, oz. \$1.00.

**COTONEASTER PANNOSA**—Shrub of upright growth, small branches drooping. Leaves green above, silvery beneath. White flowers followed by red berries in the fall. Pkt. 10c.

**CRATAEGUS CRENULATA**—A thorny shrub with small leaves and red berries. Pkt. 10c.

**CRATAEGUS PYRACANTHA**—(Coccinea)—A thorny, thick-growing shrub with small leaves. The white flowers are followed by orange scarlet berries, making the plant beautiful during the winter. Pkt. 10c.

**CRATAEGUS YUNNANENSIS**—A low-growing, squatty variety coming from Japan. The berries are very bright red and come in great abundance. A handsome, rare variety. Pkt. 10c.

**CRYPTOMERIA ELEGANS**—"Fine leaved Japan Cedar." Fine foliage which turns red in the winter. A beautiful tree for the lawn. Pkt. 15c, oz. 60c.

**CUPRESSUS MACROCARPA**—"Monte-river Cypress." 75 ft. Native of California. Extensively used for hedges and windbreaks. Pkt. 10c, oz. 50c.

**C. SEMPERVIRENS**—"Italian Cypress." A narrow tapering tree. Used in landscape gardening. Pkt. 10c, oz. 75c.

**C. ARIZONICA**—"Arizona Cypress"—One of the best cypresses, with a bluish cast. Has a slender, upright growth and will thrive in almost any soil, standing both heat and cold. Pkt. 10c, oz. 90c.

**CYDONIA JAPONICA SANGUINEA**—"Scarlet Flowering Quince"—Beautiful deciduous shrub bearing a profusion of scarlet flowers. Pkt. 15c, oz. \$1.00.

**DIOSMA ERICOIDES**—(Breath of Heaven)—Small shrub with fine feather-like foliage and dainty fragrant white flowers. Pkt. 15c, 1000 seeds \$2.50.

**DURANTA PLUMIERI**—(Golden Dewdrop)—Tall rapid growing shrub with lavender-blue flowers in terminal clusters, followed by yellow berries. Drought resistant. Pkt. 10c, oz. 50c.

**ERYTHRINA CHRISTA-GALLI**—(Coral Tree)—Showy and beautiful shrub or small tree producing many butterfly-like flowers of a brilliant crimson shade. Pkt. 15c, oz. \$1.00.

**ESCALLONIA MONTEVIDIENSIS**—Attractive, evergreen, erect shrubs growing in almost any ordinary soil. Of very tree-like flowering habit. White flowers in loose terminal clusters. Pkt. 15c, 1-16 oz. 50c.

## EUCALYPTUS

Should be sown in June or July in thoroughly prepared seed boxes. The beds should be kept moist at all times and watered only with a very fine spray. When seedlings appear water only in the morning to prevent damping off. The seedlings should be transplanted when 2 or 3 inches high, to other boxes or small pots, and should be ready to set out in February and March. One pound produces about 22,000 seedlings.  
**E. Citrodora**—(Lemon Gum)—Tall slender tree with clean gray bark and lemon scented foliage. Rapid growing and drought resistant. Pkt. 25c, oz. \$1.50.  
**E. Corynocalyx**—"Sugar Gum." 100 ft. This variety is the most drought resistant of all, but will not stand much frost. Wood hard. Pkt. 15c, oz. \$1.20.  
**E. Foliifolia**—"Scarlet Flowering Gum." The best of the red flowering varieties. 25 seeds 25c.

**E. Globulus**—"Blue Gum." Most rapid grower and best known species. Grows well along coast. Wood is durable and also good fuel. A profitable tree to grow. Pkt. 15c, oz. \$1.25.

**E. Rostrata**—"Red Gum." A very tall variety. Withstands extremes of heat and cold. Grows most quickly in the hot sections. Is durable and useful for cabinet work. Pkt. 15c, oz. 75c.

**E. Rudis**—"Desert Gum." Very valuable for hot arid sections. Wood durable. Good for street planting. Pkt. 15c, oz. \$1.00.

**E. Sideroxylon Rosea**—(Red Ironbark)—One of the most beautiful of all Eucalyptus. Adapted to any location and bearing masses of delicate pink flowers which contrast with the dense silvery gray foliage. Pkt. 25c, oz. \$1.50.

**E. Viminalis**—"Manna Gum." A hardy rapid growing variety well suited to exposed situations. The wood is softer than some, but easier to work and takes a fine polish. Pkt. 15c, oz. \$1.00.

**EUGENIA HOOKERI**—(Brush Cherry)—Handsome shrub with purple berries. 15 feet. Easily trimmed into formal shapes. 25 seeds 15c, 100 seeds 35c.

**FEIJOA SELLOWIANA** or **PINEAPPLE GUAVA**—An attractive evergreen shrub with glaucous foliage and purplish red waxy flowers. The delicious fruit may be eaten raw or cooked. Pkt. 15c.

**FRAXINUS VELUTINA**—(Arizona Ash)—Rapid growing tree for planting in hot dry locations. Will grow on alkaline soils. Pkt. 10c, oz. 50c.

**FREZIERIA MEXICANA**—Wonderful shrub for hot, dry sections. Leathery dark green foliage with deep orange flowers—3 to 4 inches across. Pkt. 25c.



# TREE AND SHRUB SEEDS—Continued.

**GENISTA CANARIENSIS** (Canary Broom)—Free flowering shrub, 6 to 8 feet. Bright yellow flowers in great profusion. Pkt. 15c, oz. 75c.

**GENISTA FRAGRANS**—A pratty shrub, compact in growth, covered in the spring with yellow flowers. Pkt. 15c.

**GREVILLEA BANKSII**—Bushy shrub, 6 to 8 feet. Attractive fern-like leaves and erect clusters of crimson flowers. Pkt. 15c.

**GREVILLEA ROBUSTA**—"Silky Oak." A pretty tree with fern-like foliage. Orange colored flowers. Rapid grower; withstands drouth. Pkt. 15c, oz. \$1.00.

**GUAVA STRAWBERRY** (*Psidium Cattleianum*)—The glossy-leaved shrub producing an abundance of luscious fruit the size of a large strawberry. Pkt. 15c, oz. 75c.

**GUAVA LEMON** (*Psidium Gualava*)—Large yellow fruits. Plant is tender against frost. Pkt. 15c, oz. \$1.00.

**JACARANDA MIMOSAEFOLIA**—30 feet. A fine tree with fernlike foliage, bearing clusters of light blue flowers. Pod contains 30 or 40 seeds. 5c, a pod.

**JUNIPERUS VIRGINIANA**—Red Cedar. 60 feet. A handsome well-known tree. Pkt. 10c, oz. 60c.

**LAGUNARIA PATERSONII**—Small pyramidal tree with oval leaves and pale rose flowers similar to *Hibiscus*. Pkt. 15c, oz. \$1.00.

**LAUREL ENGLISH** (*Prunus Laurocerasus*)—Evergreen shrub. Is effective wherever planted. Broad leaves, leathery and glossy. Small white flowers in clusters. Seed slow in germination. Pkt. 10c.

**LAUREL PORTUGAL** (*Laurus Lusitanica*)—Dark green glossy-leaved shrub, 8 feet. Flowers grow in panicles. Pkt. 10c, oz. 40c.

**LEPTOSPERMUM LAEVIGATUM**—A rapid growing shrub, drooping, graceful habit, succeeding well in California. Foliage grayish green and white flowers borne in great profusion. An evergreen. Pkt. 25c.

**LIBODENDRUS DECAURENS**—100 feet. "Incense Cedar." A fine native tree of compact growth green foliage and red bark. Pkt. 15c, oz. \$1.00.

**LIGISTRUM NEPALENSIS**—"Small Leafed Privet." An evergreen shrub much used for hedges. Makes a thick, dense hedge, easily trimmed. Pkt. 10c, oz. 50c; 1/4 lb. \$1.50.

**LIGISTRUM JAPONICUM**—"Japanese Privet." A large shrub with thick, dark green leaves. Much used for hedges. Pkt. 10c, oz. 50c; 1/4 lb. \$1.50.

**MELIA UMBRACULIFORMIS**—"Texas Umbrella Tree." Deciduous. A well known shade tree. Withstands heat. Pkt. 10c, oz. 25c.

**MELALEUCA ARMILLARIS**—"Bottle Brush." A large-growing shrub of graceful drooping habit. Leaves are dense and narrow like flow clusters white, cylindric in form and about 2 inches long. Is hardy and is generally planted in shrubbery borders. Pkt. 15c.

**MELALEUCA HYPERICIFOLIA**—"Bottle Brush." A large growing shrub, bright green opposite leaves. Flower clusters a rich red. Very showy and one of the best. Pkt. 15c.

**MELALEUCA NESOPHYLLA**—"Bottle Brush." Similar to the above but more rapid growing. Flowers soft lavender pink. Pkt. 15c, oz. \$1.20.

**MYRTUS COMMUNIS**—Handsome evergreen shrub growing 3 to 10 feet or more. Strong scented leaves bears a blue black berry. Pkt. 15c, oz. \$1.00.

**PARKINSONIA ACULEATA** (Jerusalem Thorn)—Excellent tree for desert country. 20 feet. Bright yellow flowers. Attractive to bees. Pkt. 15c, oz. 50c.

**PHOTINIA ARBUTIFOLIA** ("California Holly")—A native shrub of California, growing well along the coast or in the hot interior. A decorative plant, especially during the winter when covered with the deep red clusters of berries. Pkt. 10c, oz. 40c, lb. \$4.00.

**PINUS CANARIENSIS**—"Canary Island Pine." A rapid growing, robust tree, standing drought well. The foliage is a beautiful glaucous blue color. Pkt. 15c, oz. 75c.

**PINUS HALEPENSIS**—"Aleppo Pine." Recommended for seaside planting. Trunk slender and destitute of branches for a considerable height when full grown. 60 feet. Pkt. 25c, oz. 75c.

**PINUS INSIGNIS**—"Monterey Pine." Native of California, growing well near the coast. Pkt. 15c, oz. 90c.

**PINUS PINEA** (Stone Pine)—Picturesque tree growing 80 feet high with long spreading branches. Rapid grower. Pkt. 10c, oz. 30c.

**PITTSOPORUM CRASSIFOLIUM**—A tall growing shrub. Gray-green foliage and red flowers. Pkt. 15c.

**PITTSOPORUM EUGENOIDES**—A large shrub or small tree. Handsome light green leaves and dark stems. Used for specimen plants or hedges. Pkt. 15c.

**PITTSOPORUM RHOMBIFOLIUM**—Ht. 20 feet. A handsome ornamental tree much used for street planting. Flowers white and followed by orange berries lasting during the winter. Pkt. 25c.

**PITTSOPORUM TOBIRA**—A low-growing shrub with dark green leaves and fragrant pure white flowers. Pkt. 15c.

**PITTSOPORUM UNDULATUM** (Wavy leaved). Height 10 feet. A shrub or small tree which may also be used for hedges. Deep green, glossy leaves. Flowers fragrant at night. Pkt. 15c.

**PITTSOPORUM VIVIDIFLORUM**—A shrub with shiny green leaves and green flowers followed by yellow berries during the fall. Fast growing. Pkt. 25c.

**PLUMBAGO CAPENSIS**—A spreading shrub with clean small, light green foliage. Flowers pale blue, phlox-like in shape. Free flowering. Pkt. 15c.

**POMEGRANATE, DWARF**—Small branching shrub 2 to 3 feet. Small bright scarlet flowers, producing miniature red fruit. Fine for pot plant. Pkt. 15c, oz. \$1.50.

**PRUNUS CAROLINIANA** (Carolina Cherry)—Excellent glossy leaved evergreen, 16 feet. Does best near coast. Pkt. 10c, oz. 25c, lb. \$2.50.

**PRUNUS LILICIFOLIA** (California Cherry)—A bush or small evergreen tree, very ornamental with shiny, green holly-like foliage. The flowers green, light green and are followed by large, red cherries. A native of California. Pkt. 10c, oz. 20c, lb. \$2.00.

**PRUNUS INTEGIFOLIA** (Catalina Cherry)—A native of Catalina Islands. Similar to the preceding but the leaves are larger and less spiny and the fruit larger. Pkt. 10c, oz. 20c, lb. \$2.00.

**QUERCUS AFRIFOLIA** (California Live Oak)—Magnificent dark green native oak. Pkt. 20c, lb. \$1.75.

**RAPHANOLEPSIS JAPONICA**—Compact dwarf shrub 2 1/2 to 4 feet. White flowers followed by blue grape-like berries in the autumn. Pkt. 10c, oz. \$2.00.

**RHAMNUS CALIFORNICA** (Wild Coffee)—Attractive dense shrub with glossy green leaves. Flowers creamy-white, followed by large berries in shades of yellow. Pkt. 10c, oz. 25c.

**ROBINIA PSEUDACACIA** (Black Locust)—A deciduous tree of rapid growth. Drought resistant and much used in arid sections for shade. Handsome foliage. Pkt. 10c, oz. 25c.

**SCHINUS MOLLE**—"Pepper Tree." A graceful well known tree with fine foliage and red berries. Pkt. 10c, oz. 25c.

**SEQUIA SEMPERVIRENS**—"California Redwood." A fast growing native tree with reddish colored wood. Ornamental. Pkt. 15c, oz. 75c.

**SOLLYA HETEROPHYLLA**—"Australian Blue Bell." A hardy evergreen climber or may be used as a spreading shrub producing many brilliant blue bell shaped flowers. Will grow in partial shade. Pkt. 15c.

**SPARTIUM JUNCEUM**—"Spanish Broom." Quick growing shrub reaching a height of 10 ft. Yellow pea-shaped flowers. Pkt. 15c.

**SPARTIUM SCOPARIUM**—"Scotch Broom." Dense growing shrub bearing yellow pea-like flowers. Pkt. 15c.

**STERCULIA DIVERSIFOLIA**—"Victorian Bottle Tree." A fine tree for street planting. Glossy green foliage which varies in shape. Pkt. 15c, oz. 50c.

**STERCULIA ACERFOLIA**—"Flame Tree." Very showy tree for street planting. Trusses of brilliant scarlet flowers. Pkt. 15c, oz. 50c.

**THUYA OCCIDENTALIS**—"American Arborvitae." A good tree for planting in lawns. Bright green foliage, turns bronze in winter. Pkt. 15c, oz. 75c.

**T. ORIENTALIS**—"Chinese Arbor Vitae." A small growing tree. Bright green flattened foliage. Pkt. 10c, oz. 60c.

**THUYA ORIENTALIS AUREA**—"Golden Arborvitae." Similar to the above. The foliage beautifully tinged with gold in the spring. Pkt. 15c, oz. 75c.

**UMBELLULARIA CALIFORNICA** (California Mountain Laurel)—Beautiful native tree, 25 feet. The long narrow dark green leaves are pungent when crushed. Oz. 15c, lb. \$1.50.



Phoenix Canariensis Palm

## PALM

All varieties may be sown in the open ground in mild climates except Cocos Palms. These latter require artificial heat. Some germinate quickly, others take as long as six weeks. Palms grow best in a well drained sandy loam.

**CHAMÆDOROPS EXCELSA**—"Windmill Palm." Leaves fan shaped, and deeply cut. The hardest palm we have, a fine lawn palm. Oz. 30c, lb. \$3.00.

**COCOS AUSTRALIS**—"Pindo Palm." A very ornamental palm with glaucous green leaves. Quite hardy. 10 seeds 15c, 100 for 75c.

**COCOS PLUMOSA**—A tall graceful palm, a rapid grower and a splendid variety for street planting. 10 seeds 20c, 100 seeds \$1.25.

**DRACAENA AUSTRALIS**—Cultivated for the ornamental foliage. Planted in the open in California. Pkt. 15c, oz. 75c.

**DRACAENA INDIVISA**—Similar to above but grows more rapidly. Pkt. 15c, oz. 80c.

**ERYTHRA EDULIS**—"Guadalupe Palm." 30 ft. A rapid growing variety. Fan shaped leaves of dark green. 10 seeds 15c, 100 seeds \$1.00.

**ERYTHRA ARMATA**—"Blue Fan Palm." A slow growing hardy palm, fine for lawns. Leaves a glaucous blue. 10 seeds 15c, 100 seeds \$1.20.

**PHOENIX RECLINATA**—A graceful palm large with withstands cold. 10 seeds 15c, 100 seeds \$1.00.

**P. CANARIENSIS**—"Canary Island Palm." The most graceful and the hardiest of our hardy palms. Leaves pinnate and a green color. One of the most effective for lawn planting. 10 seeds 10c, 100 seeds 50c.

**SEAPORTHIA SEGGERI**—One of the most beautiful for conservatory or protected gardens. Quick hardy. 10 seeds 15c, 100 seeds \$1.00.

**WASHINGTON FILIFERA**—The well known California Fan Palm. Grows 60 to 80 feet. Pkt. 15c, lb. \$1.50.

**WASHINGTON ROBUSTA**—A hardy Fan Palm. Leaves dark green without any threads. Pkt. 10c, oz. 30c.

# A & M Superfine Gladioli

Our Gladioli are grown on new, clean land each season thus eliminating any danger from fungus that might be carried over from year to year. As an additional safeguard the bulbs are treated in a disinfectant solution before planting. No flowers are cut for sale from our fields. By allowing the flower and foliage to die down naturally more vitality returns to the bulb and it is superior in all respects. Gladioli should be planted about three inches deep in good soil, preferably in a sunny situation.



Corner of one of Our Gladiolus Fields

**A & M Admiration (New Primulinus)**—A sturdy grower carrying spikes of exquisite salmon pink with yellow throat. 20c each, \$2.00 dozen.

**Ah**—Pale apricot pink and yellow. Medium sized flower. 25c each, \$2.50 dozen.

**Alice Tiplady (Primulinus)**—Beautiful orange-saffron color. 10c each, \$1.00 dozen, \$7.00 per 100.

**America**—Soft lavender-pink. Very popular. 10c each, 75c dozen, \$5.50 per 100.

**American Beauty**—Brilliant American beauty color. Throat creamy yellow, striped ruby. 25c each, \$2.50 dozen.

**Baron Hulot**—Dark Royal Purple. 25c each, \$2.50 dozen.

**Bevier**—Medium sized flowers well placed. Salmon pink, lower petal blotched primrose. 20c each, \$2.00 dozen.

**Byron L. Smith**—Light lavender with cream coloring in throat. Resembles a cattleya orchid. 20c each, \$2.00 dozen.

**A & M Camarillo Gem**—A wonderful new seedling Primulinus with beautiful large salmon spikes. An extremely choice variety, highly recommended. 75c each.

**Cardinal Prince**—Splendid red; darker than Dr. Bennett. 25c each, \$2.50 dozen.

**A & M Charmaine**—New seedling. Apricot pink with scarlet veining in throat. Stiff stem. Excellent landscape variety and admirable for bouquets. 25c each, \$2.50 dozen.

**Crimson Glow**—Glowing velvety crimson, shaded deeper in the center; tall, strong grower and flowers well placed. 20c each, \$2.00 dozen.

**C. F. Fairbanks**—Very beautiful and distinct red variety. 20c each, \$2.00 dozen.

**Darling's Beauty**—Primulinus. Exquisite combination of yellow and pink hard to describe. Los Angeles florists are enthusiastic over this dainty variety which is offered for the first time. 35c each.

**David Starr Jordan**—Immense spikes of flame color overlaid scarlet. Open flowers. 20c each, \$2.00 per dozen, \$15.00 per 100.

**A & M Mladem**—Distinctive form and dainty saffron pink color. A new seedling which was very outstanding in our trials. 25c each, \$2.50 dozen.

**Dr. F. E. Bennett**—Peerless flame scarlet variety with ruby throat. Flowers of good substance. 25c each, \$2.50 dozen.

**Early Sunrise**—Deep salmon, orange throat, very large flowers. 15c each, \$1.50 per doz., \$10.00 per 100.

**E. B. Williamson**—Good for landscaping; it stands erect. Mallow purple. Highly desirable for bouquets. 25c each, \$2.50 doz.

**E. J. Shaylor**—Deep rose pink. 10c each; 75c per dozen, \$5.50 per 100.

**Elf**—Pure white with delicate lemon tip. 15c each, \$1.50 dozen.

**Evelyn Kirtland**—Coral pink. 10c each, \$1.00 per dozen, \$7.00 per 100, \$50.00 per 1,000.

**A & M Flaming Spire**—Beautiful new Primulinus variety of striking rose dove color shading to scarlet with veining of lighter hue and slightly edged cream giving a feather-like appearance to petals. The spikes are long and graceful with medium sized flowers well placed. 35c each.

**Gold Eagle**—Deep rich yellow blooms daintily frilled. 25c each, \$2.50 dozen.

**Grandeur**—A deep vermilion pink. Very massive and quite distinctive and beautiful. 15c each, \$2.50 dozen.

**Herada**—Mauve. 15c each, \$1.50 dozen, \$10.00 per 100.

See the Special Collection of A & M  
Exhibition Gladioli on back cover

**Jack London**—Light salmon with vermilion stripes. Canary yellow throat with ruby stripes. A most beautiful color combination, good substance, tall, erect spike. 10c each, \$1.00 dozen, \$7.00 per 100.

**Jewel**—A wonderful pink salmon with clear, golden yellow throat marking. Vigorous plant and extremely graceful. 15c each, \$1.50 dozen.

**Joe Coleman**—Large rich red. 20c each, \$2.00 dozen.

**Lacinatus**—New type of Gladioli with lacinated petals. Extremely graceful spikes of lovely rose pink color, especially desirable for small bouquets. Breeders will find this of great value for breeding with other varieties. Medium sized bulbs. 15c each, \$1.50 dozen.

**Lilac Old Rose**—Very charming color and good spike. 25c each, \$2.50 dozen.

**Lily White**—Pure white and an early variety. 15c each, \$1.50 dozen, \$10.00 per 100.

**Los Angeles**—Grenadine pink with considerable orange. Los Angeles is often referred to as the "Cut and Come Again" Gladioli, because it produces many branches on one stalk. For commercial growers or for the home gardener we cannot recommend it too highly. 10c each, \$1.00 dozen, \$7.00 per 100, \$55.00 per 1,000.

**Maiden Blush (Primulinus)**—Exquisite pink. 10c each, 75c dozen, \$5.50 per 100.

**Mrs. Dr. Norton**—Delicate pink. 15c each, \$1.50 dozen, \$10.00 per 100.

**Mrs. F. C. Peters**—Lovely rose lilac with crimson blotch. 25c each, \$2.50 doz.

**Mrs. Frank Pendleton**—Rose pink, carmine blotch on lower petals. 10c each, 75c dozen, \$5.50 per 100.

**Mrs. H. E. Bothin**—Lovely light geranium pink with scarlet center. Flowers ruffled with a strong spike. 25c each, \$2.50 dozen.

**Mrs. Leon Douglas**—Immense begonia rose flower striped with flame and brilliant scarlet. Lip pale lemon, slightly speckled with ruby. A giant among Gladioli. 25c each, \$2.50 dozen.

**Myrtle**—Very delicate pink. Fine for florists. 10c each, \$1.00 dozen, \$7.00 per 100.

**Nightingale**—Beautiful primulinus type of exquisite peach pink color. 20c each, \$2.00 dozen.

**1910 Rose**—Pure deep rose pink with white center lines on lower petals. Strong grower, early and a good cut flower. 15c each, \$1.50 dozen.

**Odin**—Large salmon flowers with dark blotch. 20c each, \$2.00 dozen.

**Orange Queen**—Exceptional Primulinus variety with superb spikes of distinct glowing apricot orange color. Very striking. 35c each.

**Pasadena**—Large flowers slightly ruffled. White with blood red edging, long straight spike. 15c each, \$1.50 dozen, \$10.00 per 100.

(Continued next page)



## Gladioli - - Continued

**Peep-o-Day**—Tall. Pretty blushed pink on white ground. Resembles Early Sunrise. 20c each, \$2.00 dozen.

**Prince of Wales**—A clear, delicate salmon pink. The finest of this color and one that we highly recommend. An early variety and very popular for cutting. 10c each, 75c dozen, \$5.50 per 100, \$40.00 per 1,000.

**Pythia**—An excellent gigantic flower on very tall spikes. Color a pleasing shade of red. 25c each, \$2.50 dozen.

**Rev. Ewbank**—Delicate blue with darker blotch. 25c each, \$2.50 dozen.

**Rose Ash**—Old rose overlaid and blended with pink and red. A striking combination difficult to describe. 20c each, \$2.00 dozen.

**Sheila**—Primulinus. Light coral-red with primrose blotch. Throat blue pink. Good form. 25c each, \$2.50 dozen.

**Souvenir**—The finest clear bright yellow in existence. 10c each, \$1.00 dozen, \$7.00 per 100.

**Tyrene Beauty**—Exquisite shade of magenta rose. Elegant large blooms. Highly recommended. 50c each.

**Ventura**—Fine rose pink, white stripe, dark throat. Good straight spike and many open flowers. 35c each.

**Virginia**—Brilliant scarlet. The most popular red variety. A vigorous grower with erect stalks. Exceedingly attractive for cutting or will give a grand mass of color when grown in beds. 10c each, 75c dozen, \$5.50 per 100, \$40.00 per 1,000.

**Watermelon**—Tall, stately plant with flowers an inviting watermelon shade. Very distinct. 35c each.

**Wilbrink**—Pale pink. 15c each, \$1.50 dozen, \$10.00 per 100.

**W. H. Phipps**—The wonder Gladioli. Spikes are enormous with several flowers open at the same time. Lovely salmon pink; lower petals faintly speckled ruby. A prizewinner. 25c each, \$2.50 dozen.

**De Luxe Mixture**—Includes many of the finest varieties listed above and numerous worthwhile seedlings from our Trial

Grounds. Many delightful surprises will be found in this mixture. 85c dozen, \$6.25 per 100, \$50.00 per 1,000.

**Choice Mixture**—Grown from the best mixture of bulbets. A splendid range of colors will be obtained from this fine assortment. 60c dozen, \$4.50 per 100; \$35.00 per 1,000.

**Growmore Mixture**—Every year we harvest thousands of bulbs which are hardly large enough to include in our other mixtures. These smaller bulbs will produce very satisfactory flowers although the spikes will not be so long as those grown from No. 1 bulbs. We are offering these at a special price to enable you to grow more Gladioli. 50c dozen, \$3.50 per 100, \$25.00 per 1,000.

**Primulinus Mixed**—Many of the most recent introductions are included in this mixture. This type is very valuable as a cut flower, the long slender spikes lending themselves to most artistic arrangements in vases. 75c per dozen, \$5.50 per 100.

## ANTIGONON LEPTOPUS

Called Queen's Wreath and Rosa de Montana. A rapid growing and lovely vine with heart-shaped leaves and bearing quantities of rose pink flowers in wreaths. Blooms in the summer and fall. A vine which will thrive in hot, sunny situations and if cut down by frost will come up again in the spring. Strong, 3-year-old roots. Each \$1.00.

## BLEEDING HEART

"*Dicentra spectabilis*"—An old garden flower that through its easy cultivation and beauty has held its place for many years in garden lovers' esteem—grows about 18 inches high. The bloom is of rosy red color and very attractive. Plant in shady location. 75c each, \$7.50 per dozen.

## LILIES

Lilies should be planted eight to ten inches deep in soil which has been mixed with well rotted manure and sand, and they should not be disturbed. If planted in pots, observe same conditions, only covering to a depth of one inch. The pots should be plunged in soil and not watered until growth appears. On sale January to March.

### Lilium Auratum

Gold Banded Lily of Japan. Flowers white, spotted crimson, with pure gold band running through center of each petal. Very fragrant and the most beautiful of all Japanese lilies. 35c each, \$3.50 doz.

### Lilium Rubrum

"Red Japan Lily"—Flowers white, shaded and spotted with crimson, very fragrant. One of the best for cut flowers as the flowers do not all open at once. 35c each, \$3.50 doz.

### Lilium Tigrinum

This is the lovely Tiger Lily bearing handsome orange salmon flowers spotted black. It is a good pot or garden variety, a free bloomer, and grows very tall. 35c each, \$3.50 dozen.

## BEGONIA

### (Tuberous Rooted)

These are very satisfactory as summer bloomers. For outside beds, plant in a shaded location, covering the bulbs about one-half inch deep. Water lightly until growth starts. After the foliage has died down in the fall, lift them and store in dry sand. Tuberous Begonias make very good pot plants. Use a five-inch pot for each bulb filled with rich sandy loam and give the plants light but not direct sun. No bulb is more satisfactory for pot culture.

Single Scarlet, Yellow, Orange, Rose. 25c each, \$2.50 per doz.

Double Scarlet, Yellow, Salmon, Rose. 35c each, \$3.50 per doz.

## CALADIUM (Elephant Ear)

A semi-aquatic plant, requiring a warm location and plenty of water. They may be kept growing throughout the year in most localities in this state, but should they be frosted down they will soon make new growth. The large leaves are very ornamental. On sale January to April. 25c each.

## SPIRAEA (Astilbe)

Attractive plant of vigorous growth, producing many branched, feathered heads of flowers during the early summer. Prefers a half shady, moist situation.

**Philadelphia**—Rosy purple. Large plumes. Clumps \$1.00 each.

**Salmon Queen**—Salmon rose. Clumps \$1.00 each.

**W. E. Gladstone**—Pure white. Clumps \$1.00 each.

## TIGRIDIA PAVONIA (Shell Lily)

Tigridias are closely related to the Iris. They are very attractive and interesting and bloom over a long period.

The Pavonia variety is a bright scarlet spotted with orange.

Bulbs scarce, 25c each, \$2.50 dozen.

## CALLA ELIOTIANA

### (Yellow Calla)

December 1st to April 1st

One of the most attractive flowers grown, suitable for outdoor bedding or for pot culture. The blossom is large and a deep golden yellow. The leaves are spotted white.

Medium Size—30c each, \$3.00 dozen.

Large Size—50c each, \$5.50 dozen.

## PINK BABY CALLA

(New). Grows to a height of about 18 inches. The flowers are miniature Callas being 1½ to 2 inches across and of a pretty rose shade. They grow nicely out of doors in Southern California or they may be used as a pot plant. 75c each, 5 for \$3.00.

## TUBEROSES

Mexican Everblooming

The most fragrant of all tuberoses and a wonderful bloomer. Flowers are pure white and clustered from six to a dozen on stiff stems, making them excellent for cut flowers. The bulbs of these multiply from year to year, producing great masses which should be separated and transplanted every three years. They are very hardy and will grow and bloom in the warm inland valleys equally as well as on the coast. A dozen bulbs will plant a row six feet long. 10c each, 75c doz. Large size 15c each, \$1.25 doz.

**Excelsior Double Pearl**—This variety is grown largely for its individual flowers which are large and double. The spikes are dwarf and full flowered. The culture is the same as for the Mexican variety. 10c each, \$1.00 per doz.

## ZEPHYRANTHES

### Fairy Lilies

**Candida**—Beautiful white flowers and attractive foliage, making it a very desirable plant for borders and beds. Height about 1 foot. Long blooming season. Bulbs multiply rapidly. 75c dozen, 100 for \$5.50.

**Rosea**—A beautiful variety with rose-colored flowers. \$1.00 dozen.



Lilium Auratum

# A & M DAHLIAS

## ORDER EARLY

Dahlia bulbs are ready for shipment about March 1st. You may include them in your order for seeds and they will be sent when ready. We do not advise ordering these after May 15th.

Our offerings of Dahlias are only those varieties which we have found to be entirely satisfactory to planters in general. There are hundreds of worthless varieties with which the amateur is not familiar, and would consequently have more difficulty in choosing properly if they were included among the listings.

## DAHLIA CULTURE

A bulletin on Dahlia Culture will be mailed free upon request and will be included with each order of Dahlias.



Eleanor Vanderveer

## A & M DECORATIVE DAHLIAS

The Decorative type of Dahlia is a large double flower, full to the center. Broad, flat petals with broad points or rounded tips. They flower freely on long stems and are a very popular type.

	Each
311 Avalon—Large clear yellow.....	\$ .75
312 Black Jack—Extremely large flowers of deepest maroon. Tall, vigorous plants and strong, straight stems.....	1.00
99 Blanca—A mammoth white variety of artistic form. A prize winner in this class.....	1.00
81 Bronze Beauty—Exceptionally fine variety, offered for the first time. Very large handsome flowers of golden bronze.....	5.00
226 Charm—A pleasing combination of burnt orange shading to a beautiful yellow.....	1.00
107 Dr. Tevis—A beautiful shade of salmon rose, suffused with old gold shading to a golden apricot. A wonderful dahlia with long, stiff stems.....	.50
103 Earl Williams—White tipped crimson—a very striking combination of colors. An exceptional flower.....	1.50
314 Eleanor Vanderveer—Flower of exquisite beauty and great size in a satiny rose pink. One of the best.....	1.00
313 Empress Eugenia—Beautiful Rosaline purple.....	.75
100 Falch Garibaldi—Lovely rose-pink dahlia of immense size and good depth; straight stiff stems.....	1.50

300 Flaming Meteor—Flame scarlet and orange buff. Center petals pointed in sunburst effect, outer petals flat. A prize winner wherever shown.....	2.50
78 Frank Miller—A wonderful 10-inch decorative type Dahlia. Color described as pearly yellow. Fine straight stems.....	10.00
112 Halvella—A charming novelty of old rose pink with a golden sheen, on long, stiff stems.....	.50
76 Jane Cowl—Immense glistening bronze and old gold. Very graceful flower on good strong stem. An exhibition variety.....	5.00
212 Jersey's Beauty—This dahlia is one of our outstanding offers. It is one of the most perfect dahlias in existence. The blooms are of perfect form and the color is a very pleasing eosine pink, carried on long and exceptionally strong, wiry stems. If you grow no other dahlia our recommendation would be to by all means plant one of these.....	1.00
83 Jersey's Beacon—Very vigorous, and a free and early bloomer. Brilliant scarlet with buff reflex.....	1.50
316 Jersey's Jewel—Mallow pink, very large, long petaled, flowered on good stems. A splendid exhibition variety.....	1.00
102 John D. Long—Full, well-formed flowers, delightfully colored with a blend of salmon-pink, amber and bronze.....	.50
15 Kitty Dunlap—A large flower of American Beauty rose, with deeper rose center. A full, beautifully formed flower on an upright stem. An excellent variety for all purposes.....	.50

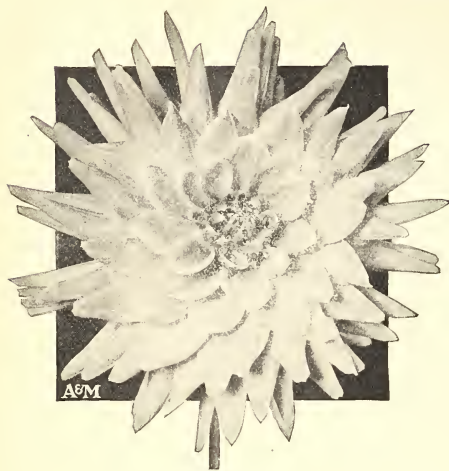
The annual show of the Dahlia Society of Southern California is held in the Biltmore Hotel, Los Angeles early in September. This is one of the outstanding Dahlia exhibitions in the country and the greatest pleasure is derived by all who can possibly attend.

118 Margaret Masson—Magnificent exhibition variety of silvery lavender-pink color. Awarded many prizes.....	1.50
85 Mary C. Burns—The outside of the petals is old gold and the reverse a dull red. Very attractive in all respects.....	.75
122 M. H. DeYoung—Pure old gold, the best of its color. The large flowers are held high on absolutely stiff stems. Fine for exhibition and cutting.....	3.50
119 Miss Bridgton—Exquisite pink suffused violet. Vigorous plant and free bloomer.....	.75
86 Miss California—Very long stemmed variety with perfectly formed blooms, and an excellent keeper. Handsome new color known as oriental fuchsia.....	4.00
320 Mr. H. C. Dresselhuys—Fine pink. Blooms more freely than Delice.....	.50
123 Mr. Crowley—A bright glowing salmon pink, shading to yellow at the base of petals; the habit is dwarf. The medium size flowers are held erect on strong stems.....	.50
125 Mrs. Carl Salsbach—Mauve, or lilac pink. A popular variety with long stems, much used for decorative work.....	.50
126 Mrs. I. de Ver Warner—Deep mauve pink. One of the best.....	.50
79 Nopal—Six-inch oval decorative with spectrum red petals and wire-like stem.....	2.00
87 Orange Boven—Attractive shade of fiery orange scarlet. The flowers are large and double with full centers. Fine florists' variety.....	.50
88 Pink Champagne—This splendid variety is similar in many respects to Champagne Dahlia except that the color is a delightful light lavender pink.....	2.50
128 Polar Bear—One of the best white dahlias. Strong grower with good foliage and stems.....	.50
130 Pink Madonna—A deep silvery pink, flowers growing in abundance on good stiff stems. A fine cut flower.....	.25
158 Pink Triumphant—A true pink, highly recommended for floral use. Its habits, stem and color leave nothing to be desired.....	.75
124 Polar Snow—Full deep pure white blossoms on stiff stems. Should be included in every dahlia collection.....	1.00
89 Robert Treat—Strong growing variety of spreading habit. Bright American Beauty color. A real acquisition to any collection.....	1.00
137 Rosa Neil—A popular variety, pure bright rose in color. A strong grower with long stems.....	.40
321 Somerset—Salmon and old rose. A strong, healthy grower and valuable exhibition flower.....	.75

DAHLIAS—Continued



## A & M Dahlias -- Continued



California Beauty

	Each
92 St. Francis—Retains its freshness a long time after cutting. Soft cream color tinted pink on the outer petals.....	.75
93 Sulphur Frills—Bright pale yellow.....	.50
94 Susan G. Tevis—The color of this stately flower is a deep shade of lilac with a silvery sheen. Very vigorous grower and strong stems.....	1.50
96 Trentonian—A giant flower; splendid for exhibition purposes. Brilliant combination of color from old gold to reddish bronze.....	1.50
132 Tryphinnie—A lovely flower of bright shell pink, shading lighter at the tips of the petals. At the base throughout the petals is seen a bright golden yellow. The reverse of the petals is a rich pink. The stem is rigid and strong.....	.50
221 Tommy Atkins—Flaming scarlet with a metallic lustre that fairly glistens. A marvelous dahlia.....	1.00
134 T. A. Leonard—A vivid crimson variety, popular both for its color and vigorous growth.....	.75
97 W. E. Cooper—One of the best true pink decorative dahlias. Good stem and large flower.....	1.00
98 World's Best White—Pure glistening white, very large flowers.....	1.00

## A & M CACTUS & HYBRID CACTUS DAHLIAS

The true Cactus type flowers are fully double, petals long, narrow, incurved or twisted, with sharp, divided or fluted points.

The Hybrid Cactus type flowers are fully double but the petals are shorter than those of the true Cactus type and are broader and more flat, though recurved and twisted. The stems of this type are usually strong and the plants prolific bloomers.

	Each
141 California Beauty—A popular variety, both for its attractive amber copper color and for its excellent habit of growth.....	.75
322 Cigarette—Base of petals orange red, white tips. Very attractive.....	.75
144 Daddy Butler—A beautifully formed dahlia of rosy carmine. The twisted petals showing a lighter reverse. Good stem.....	.75
230 Emma Marie—A delicate rose pink shading to a white center. A marvelous flower and should become exceptionally popular.....	1.00
250 Exquisite—Elegant salmon-pink with yellow center.....	.75
244 Fireball—Large flower and good stems medium red color.....	1.00
245 Guardian—Pleasing color of glowing crimson scarlet. Perfect stem.....	.75

	Each
150 Golden West—This magnificent, large flowering dahlia has been on the market long enough to be well-known and the bulbs sell readily. The color is a yellow and orange buff. The flowers are very double and the stems are good.....	.35
251 Helium—Brilliant combination of orange over chrome yellow very prolific. Long stiff stems.....	.50
252 Inkyo—Very vigorous grower. Flowers are a deep maroon with stout stems.....	1.00
253 Mariposa—Delightful shade of pink intensified by a deeper center with a trace of violet. Perfect form.....	1.00
258 Orange Gold—Hy. Cac. Exceedingly fine cut flower variety of a rich light orange; nicely stemmed.....	2.00
254 Pink Delight—A deep pink shading to maize yellow at the base of petals. Excellent stems and growing habits.....	.50
159 Primrose Dame—Primrose yellow overlaid with pink. One of the new cut flower varieties.....	.35
255 Princess Pat—Exquisite shade of Old Rose tinted buff. Flowers are large and of perfect form.....	.50
241 Rebecca Atkinson—A beautiful intense pink flower with a white center. A dahlia of special merit. We consider this one of our leading offers for this season.....	.75
256 Rising Beauty—Handsome variety. Scarlet carmine flower with golden tipped petals.....	1.00
257 Western Star—Splendid new exhibition variety with fine stiff stems. Golden yellow. Considered one of the best in this class.....	2.50

## A & M PAEONY DAHLIAS

This type of Dahlia has broad, long petals. The flowers are large and full, generally showing the yellow center. They are free blooming and very vigorous growers. Excellent for cutting.

	Each
202 Elizabeth Boston—Immense flowers of rich, deep crimson with gold tips. The flower has splendid keeping qualities and a fine stem.....	.75
326 Gorgeous—A truly gorgeous flower. Yellow and bright scarlet and of immense size. Wonderful for garden or cutting.....	1.50

## A & M SHOW DAHLIAS

Show Dahlias are round and compact forming a ball in appearance; the petals are quilled giving the flower the appearance of a large Pompon. The blossoms are usually held on long stiff stems—a very good cutting or garden show variety.

	Each
26 George W. Gero—One of the new varieties. A beautiful clear rose pink.....	\$.50
27 Maude Adams—One of the most popular cutting varieties. White, faintly flushed pink.....	.50
29 Mrs. J. P. Smith—A very large striking cherry red flower of wonderful type and stems. One of the very finest shows.....	.35
30 American Beauty—Large blooms of exquisite wine color.....	.50
32 A & M White—Perfectly quilled Dahlia of pure white. Large ball-shaped flower.....	.50
325 Gold Medal—A charming variety—good in every way. Orange edged with bridge red.....	.50

## A & M COLLARETTE DAHLIAS

Single open-centered flowers with a circle of smaller, narrower, usually different colored rays, forming a sort of collar between the large petals and the center.

	Each
351 Ami Nonin—Deep rose, white collar, suffused rose.....	.50
352 Dora Fisher—Beautiful pink, white collar.....	.50
353 Fuga—Light red, white and red collar.....	.50
357 Geant de Lyon—Very large. Velvet maroon, white collar.....	1.00
355 Mme. Gygas—Bright red, pale yellow collar.....	.35
356 Swallow—Charming pure white variety.....	.50
Extra Choice Mixture, 35c each, \$3.50 doz.	

## A & M POMPON DAHLIAS

These are the babies in the Dahlia world. Pretty, compact flowers of the show type are borne on long, stiff stems holding the blossoms upright and making a most wonderful display of color in garden. They are very fine for house decoration and the flowers will hold up a long time in water without boiling or burning the stems. No garden in California should be without Pompons. They are so different and so dainty.

	Each
292 Alice Rockwood—Pleasing shade of old rose.....	.50
171 Anna Doncaster—Yellow edged lavender.....	.50
327 Anna Von Schwerin—True pink.....	.75
173 Almee—Bronze.....	.50
293 Augusta Pape—Miniature hy. cactus. Coral pink.....	.50
275 Ariel—Large buff.....	.50
296 Challenge—Dark red.....	.35
176 Clarissa—Primrose yellow.....	.75
280 Dandy—Perfect orange.....	.50
277 Darkest of All—Almost black.....	.50
278 Darkness—Deep maroon.....	.50
279 Dee Dee—Pure lilac.....	.50
178 Dewdrop—White tipped lavender.....	.35
285 Irene—A miniature decorative rose.....	.50
328 Jeweeltje—Miniature decorative, of light pink.....	.50
185 Joe Fette—Fine form. Pure white.....	.50
294 Little David—Deepest orange, very free flowering.....	.65
297 Nelly Fraser—White ground, tipped rose.....	.50
190 Scarlet Gem—Fine scarlet.....	.35
191 Tommy Keith—Red tipped white.....	.35
298 Vivid—Bright scarlet.....	.50
291 Yellow Gem—(New). Pure yellow.....	.50

## Cannas

The large, handsome, ornamental foliage and beautiful spikes of bright flowers make the cannas ideal for mass plantings, backgrounds, borders or hedges. They may now be obtained in heights varying from 3 to 6 feet, and in colors of rose, red, orange, to pure white. Also some foliage is bright green and some a rich bronze. These new orchid flowering and large truss varieties bloom freely for six to eight months. In mild climates they are evergreen, but we recommend cutting away the old stalks in the winter to make room for the new growth. They should be separated every three years. Set the roots 12 to 15 inches apart. They flower more freely in sunny situations but grow well in partial shade, requiring at all times plenty of moisture.



A & M

### Scarlet and Gold

Duca De Otranto—A very lovely lily-shaped variety of golden orange, which changes to a glowing carmine. An interesting and wonderfully effective canna to grow. Green leaves. Four to five ft. high. 15c each, \$1.50 per doz., \$7.00 per 100.

Panama—Large flowers with big rounded petals of strong terra cotta red color. The throat and edges of the petals are spotted with golden yellow. Leaves green. 10c each, \$1.00 per doz., \$6.00 per 100.

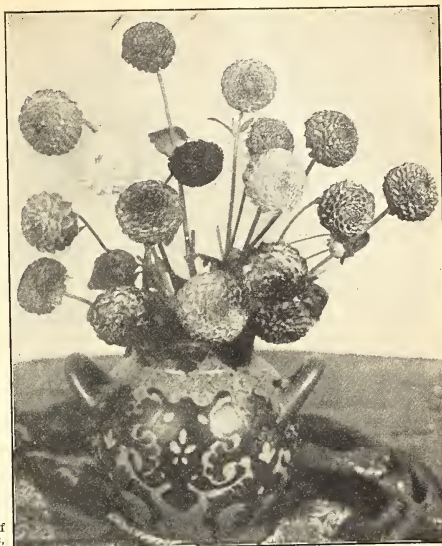
Hungaria—A fine, clear pink. Flowers large with rounded petals. Dwarf, luxuriant, green foliage. Two to three feet high. 25c each, \$2.50 per doz.

Wabash—Large fine flowers, borne many in a truss, in color salmon-pink. Rich bronze foliage. Height four feet. 25c each, \$2.50 per doz.

Morning Glow—Large shell-pink blooms. Light green foliage. 4 feet high. 20c each, \$2.00 per doz., \$8.25 per 100.

### Pink

A & M Pompon Dahlias



### Red Cannas

The President—Glowing scarlet flowers of immense size and altogether a beautiful variety. Green foliage. 4 feet high. 20c each, \$2.00 per doz., \$8.25 per 100.

Colossal—Luxuriant foliage of rich green. Height six feet. The flowers are a bright, rich red and the largest of all. 15c each, \$1.50 per doz., \$7.00 per 100.

King Humbert—Immense orchid flowers of brilliant orange red often streaked with gold. Sturdy bronze foliage. Four to five feet high. 20c each, \$2.00 per doz., \$8.25 per 100.

Uncle Sam—Deep vivid crimson. One of the largest orchid reds. Green foliage. Five to six feet high. 10c each, \$1.00 per doz., \$6.00 per 100.

Alphonso—Beautiful deep red flower with vigorous dark green foliage. 15c each, \$1.50 per doz., \$7.00 per 100.

### Yellow

Gold Bird—In color a clear lemon yellow. The flowers are often 5 inches across, the petals being broad and rounded. Excellent green foliage. Three to four feet high. 15c each, \$1.50 per doz., \$7.00 per 100.

Austria—Pure yellow with crimson markings in throat. Beautiful shade. Foliage green. 4 to 5 feet high. 15c each, \$1.50 per doz., \$7.00 per 100.

Gladiator—Yellow spotted red resembling a tiger lily. Splendid bloom. The foliage is green with silver edge. 4 to 5 feet high. 15c each, \$1.50 per doz., \$7.00 per 100.

### Orange

Indiana—A bright, vivid orange. Fine shaped flowers in large trusses. Green foliage. Five to six feet high. 10c each, \$1.00 per doz., \$6.00 per 100.

Wyoming—A large, orchid flower of pure, rich orange. Handsome bronze leaves. Four feet high. 15c each, \$1.50 per doz., \$7.00 per 100.

### White

Eureka—Full trusses of large flowers, an almost pure white. Very fine grower: green leaves; four to five feet high. 25c each, \$2.50 per doz., \$9.50 per 100.

Canna Collection—1 bulb each Uncle Sam, Gold Bird, Panama, Morning Glow, Wyoming and Duca De Otranto—six varied colors for 70c postpaid. Two collections for \$1.30 postpaid.



# A & M California Grown Roses

**Culture** Plant bare root roses during January, February and March. They prefer full sun and should be planted in a garden by themselves where they may be given such care as they need without interference from other plants or shrubbery. When bushes are received be careful not to expose them to the sun or drying wind. If the roots appear to be dry soak them in water a few hours before planting, and if the tops appear to be shriveled bury tops and all for a few days. This will plump the wood and put the plant in first class condition. The tops should be pruned back at least two thirds at the time of planting. Cut the roots back to 6 or 8 inches and remove all bruised roots. Dipping the roots in thin mud before planting will encourage the starting of fine roots more quickly.

For the control of Mildew spray thoroughly during the dormant season January and August with Dry Lime Sulphur and dust frequently thereafter with Anchor Brand Sulphur. Spray-

## PACKING AND POSTAGE ON ROSES—10c Each Rose.

Owing to special care necessary in packing roses for parcel post an additional charge as noted above is made, but if customers wish the shipment made by express this additional charge need not be added to remittance, and transportation can be paid for at destination.

ing with Destruxol will control Aphids and Scale. Roses should have a rest period from July 1st to August 15th or September 1st, in climate similar to Southern California. Water thoroughly at the beginning of this rest period, cultivate the surface and apply no more water for six weeks or two months.

Not only has California become headquarters for the production of all kinds of seed for distribution throughout the country, but it has in a measure also become headquarters for the growing of rose bushes for shipment to all parts of the United States. Many carloads of rose bushes are shipped from Southern California each year and this should indicate to the home gardener that soil and climatic conditions in California are ideal for roses.

Our offerings are roses of strictly No. 1 Grade. You will find our prices more reasonable and if others are offered for less money a comparison of quality should be made.

## ON SALE JANUARY 1st TO MARCH 25th ONLY

### Latest Introductions

#### SIX MAGNIFICENT ROSES

**ANGELE PERNET**—Vivid orange yellow, shaded fiery deep reddish apricot. This is a combination of colors very difficult to describe, but it is the most beautiful rose. A moderately strong grower, buds long, opening into a full, sweet scented flower. Each 85c.

**BETTY UPRICHARD**—Well formed medium sized flowers, sweetly scented. Combination color of salmon pink to carmine with coppery orange sheen on outside of petals. Each 85c.

**BRIARCLIFF**—Long and pointed buds of exquisite shade of soft pink. Very valuable as cut flower, keeping for a long time. Each 85c.

**DAME EDITH HELEN**—Introduced in 1926 this magnificent rose has won an unprecedented number of honors both in Europe and in this country. The color is an engaging soft rose pink and the immense flowers are delightfully scented. The plant is very vigorous. Each \$1.25.

**DUCHESS OF YORK**—Very meritorious rose with large blooms of fine form. Deep golden yellow. Very valuable for bedding and blooms keep well after cutting. Each \$1.00.

**MRS. L. SWISHER**—California rose of unusual merit. The color of the shapely buds is a bronze salmon merging to salmon pink at the tips. Very fragrant. Each 85c.

### General List

**AMERICAN BEAUTY**—Deep pink to soft carmine, with delicate veining to dark red on the broad petal. This is the original American beauty which is still popular in many districts. Each 50c.

**CECILE BRUNNER (Bush)**—Bright rose shaded salmon pink. One of the best of the miniature roses and planted extensively throughout Southern California. Each 50c.

**HADLEY**—Deep velvety crimson, retaining its color at all seasons. The buds are small, firm, large, full and long. It is a free bloomer and fragrant! Each 65c.

**HOOSIER BEAUTY**—This remarkable rose is distinctly different in coloring, being a glowing crimson with darker shadings. The buds are large, long and pointed. Blooms are very full when open. Each 65c.

**IMPERIAL POTENTATE**—Magnificent rose of recent introduction. The color is a deep shining rose-pink, shaded lighter on reverse of petals. Very fragrant. Each 65c.

**IRISH FIREFLAME**—A glorious single-flowering variety, bearing flowers in clusters of five or more, and splendid for cutting in sprays in bud form. The buds are wonderfully rich in coloring, being a deep orange splashed with crimson, opening to a satiny old rose. Each 50c.

**ETOILE de FRANCE**—Velvety crimson with bright cerise center. Buds are long and usually borne singly on stiff stems. Flowers are large and full. Each 50c.

**FELICITY**—A beautiful shade of mallow-pink, tinted with cerise and cream. Vigorous and free flowering. Each 75c.

**FRAU KARL DRUSCHKI**—Snow white. Flowers are extremely large yet beautifully formed. The growth is strong and vigorous with abundant foliage. Sometimes called the White American Beauty. Each 50c.

**GEORGES PERNET**—Exquisite blooms of orient red, shaded carmine and yellow. It is a free bloomer, the foliage is a pretty bronze green and there are few thorns. Each 65c.

**GENERAL McARTHUR**—A well known and popular rose of bright crimson scarlet and delightfully scented. This is one of our best blooming varieties. Each 50c.

**GOLDEN EMBLEM**—A most beautiful deep golden yellow, occasionally flaked with crimson on the outer petals. Large well shaped buds and flowers on long stiff stems. Foliage is a rich glossy green. Each 65c.

**CLAUDIUS PERNET**—One of the finest deep yellow roses introduced in recent years. It holds its color well in bud and open blossom, and does not fade as do so many yellow varieties. The plants are of branching habit with a very pretty foliage. The buds are long. Each 65c.

**CONSTANCE**—Beautiful free flowering variety with long orange yellow buds streaked crimson. Medium size flowers. Each 65c.

**CRIMSON QUEEN**—Large, bright velvety crimson, of strong, upright growth. This is a grand rose for the garden, for it blooms almost continuously. Each 50c.

**CUBA**—Unequaled as a bedding variety for brilliant massing effect. The flowers are semi double of a scintillating vermillion scarlet on orange ground. Each 85c.

**DUCHESS OF WELLINGTON**—Intense saffron yellow stained with deep crimson, changing to a deep coppery saffron yellow as the flowers develop. The flowers are full, with large petals, good substance, delightfully fragrant and very free flowering. Each 60c.

**ETOILE de FEU**—A rich flaming orange-pink. Bears profusely. Very vigorous plant with beautiful foliage and altogether a very distinguished rose. Each 75c.



**ISOBEL**—Crimson flushed orange scarlet, with a faint copper shading and a yellow center. The flowers are very large, fragrant, and are produced in great numbers. Each 65c.

**JULIET**—Exceptional coloring, petals outside being old gold and inside range from rose to crimson. Blooms vigorously throughout the summer. Fragrant. Each 65c.

**KAISERIN AUGUSTA VICTORIA**—Probably the best creamy white rose grown for garden purposes in Southern California. The buds are large, of good form, the plant is a vigorous grower and the stems are good. Each 50c.

**LADY ALICE STANLEY**—Large, pale, flesh petals with the reverse side of the petal a deep coral rose. Large, very double, fragrant flowers on long stems. A continuous bloomer. Each 50c.

**LADY HILLINGTON**—A most popular rose wherever it is grown, the color being a deep orange yellow, buds long and pointed, very sweetly scented and holding its color well. A free bloomer. Each 50c.

**LOS ANGELES**—A luminous flame pink toned with coral and shading pink at the base of the petals. The buds are long and pointed and expand to a very large flower. It is beautiful from the opening of the bud until the last petal drops, and if properly pruned and cared for will produce wonderful stems. Each 65c.

**LOUISE CATHERINE BRESLAU**—Coral-red, shaded chrome yellow. Long oval buds developing into fragrant globular flowers. Robust grower. Each 65c.

**LULU**—A recent introduction, bearing splendid long buds of brilliant orange pink shaded copper. This is a fine free flowering rose which is highly resistant to disease. Pick the buds when they first show color. Each 65c.

**MARY PICKFORD**—Novel and distinct color of orange shaded on the reverse of the petals with salmon. The buds are long and shapely. Each 65c.

**MAD. EDOURD HERRIOT**—A handsome rose of coral-red, shaded with yellow and bright rose scarlet. Is sometimes called "Daily Mail." Each 50c.

**MAMAN COCHET**—Deep rose pink on outer petals, but very much lighter in the center. Buds are extremely large and beautifully formed, with outer petals well reflexed. One of the most popular varieties and generally known as Pink Cochet. Each 50c.

**CL. AMERICAN BEAUTY**—Rich carmine flowers, 3 to 4 inches in diameter and produced in great abundance. Each 50c.

**BELLE OF PORTUGAL**—A very fine climbing rose which has come into popular favor within the past few years. The flowers are very large, of a soft pearl pink in color and are produced on long stems. It is a free bloomer, particularly in the Spring time. Each 75c.

**CL. CAROLINE TESTOUT**—Another strong grower, with foliage and flowers, same as bush from which it is a sport. Each 50c.

**CL. CECILE BRUNNER**—One of the strongest growing roses and very free bloomer. Baby size flowers, a clear pink. Each 50c.

**CLARA BOW**—Wonderful new climbing rose. Rich deep yellow with coral flush extending from the base of the petals. Very vigorous and free flowering. Each \$1.25.

**CL. CLAUDIUS PERNET**—Climbing counterpart of the wonderful bush form. Beautifully formed buds of pure deep yellow. Each \$1.25.

**CL. DOROTHY PERKINS**—Beautiful deep pink, and a variety that is well known for its graceful clusters of flowers and heavy foliage. Each 50c.

**MME. ALEXANDRE DREUX**—Yellow bud opening to a high centered flower of deep yellow splashed with orange. Sweetly scented. Each 85c.

**MME. BUTTERFLY**—Bright pink suffused apricot and gold. Free growth with beautiful buds and flowers. Each 50c.

**MME. ABEL CHATENAY**—Rosy carmine tinted salmon. The flowers are large, exquisitely formed and the bush is of vigorous growth. Each 50c.

**MME. CAROLINE TESTOUT**—Large full, globular flowers of bright satiny pink with a brighter center. This is the rose that is grown so freely in Portland and it is one of our good varieties. Each 50c.

**MRS. AARON WARD**—A very fine rich yellow. Medium size in bud and excellent for cutting. Each 50c.

**MRS. HENRY MORSE**—Lovely pink, shaded salmon, deeper at base. High pointed blooms, free flowering with distinct tea scent. Each 65c.

**MRS. H. R. DARLINGTON**—A deep cream yellow, producing many flowers of perfect form. This is a Gold Medal rose, a vigorous grower and quite fragrant. Each 65c.

**MRS. W. C. EGAN**—Elegant shade of two tone pink with golden line at base of petals. Blooms profusely and is sweet scented. Each 65c.

**OLD GOLD**—Vivid reddish orange with apricot shadings. Strong grower and free bloomer. Each 50c.



Sunburst

## CLIMBING ROSES

**DR. VAN FLEET**—Dainty color of rich flesh pink hue. The long pointed buds are borne on very long stems, making it an excellent variety for cutting. Each 50c.

**DUCHESSE D'AUSERSTADT**—Color vivid Nanken yellow. A very large, full and strong growing sort. Sometimes considered superior to Marechal Niel. Each 65c.

**CL. FRAU KARL DRUSCHKI**—Pure snow white and strong grower. Each 60c.

**CL. GEN McARTHUR**—Possesses all of the good qualities of the bush variety and is very beautiful as a climber. Each 50c.

**CL. GOLD OF OPHIR**—A most beautiful color combination of copper, carmine and salmon. One of the popular climbers of Southern California. Each 50c.

**CL. HADLEY**—Same as the well known bush variety. Each 65c.

**CL. HOOSIER BEAUTY**—Deep crimson with darker shadings. Just like the bush variety. Strong and vigorous. Each 60c.

**CL. K. A. VICTORIA**—One of the best creamy white climbers. Each 50c.

**CL. LADY HILLINGTON**—In every way as desirable as the bush. A vigorous grower. Each 50c.

**OPHELIA**—The color is a salmon flesh shaded rose, with a chamolai center. A rose that is lovely at every stage, in bud or open. Each 50c.

**PADRE**—Beautiful and novel coloring, entirely different from any other rose, this being a brilliant coppery red, flushed with yellow at the base. The habit of growth is vigorous, the flowers are large and the buds long and pointed. Each 65c.

**QUEEN ALEXANDRA**—A most attractive color combination of vermillion, crimson and pink. The petals are reflexed and the reverses are shaded deep old gold. Free blooming and fragrant. Each 65c.

**RADIANCE**—Large cup shaped flowers of soft carmine pink and one of the very best garden varieties. The growth is vigorous and erect, with large spreading branches and flowers are produced on good long stems. Each 50c.

**RED RADIANCE**—A velvety glowing crimson with all the magnificent qualities of the Radiant Pink. The flowers are full and extremely double. Each 50c.

**ROSE MARIE**—A pleasing clear rose pink and one of the very popular roses for the California garden. Remarkably free flowering, producing large, long, pointed buds which develop into full flowers of beautiful form. Each 50c.

**SHOT SILK**—Color orange-rose, over-shot with golden-yellow and flushed soft rose. Handsome shaped bud. Vigorous growth with very attractive foliage. Introduced 1924 and a gold medal variety. Each 65c.

**SUNBURST**—Yellow shaded copper orange, with the outer petals lighter. Both bud and flower are of good shape and it is one of our best blooming varieties. Each 50c.

**SUNSTAR**—Deep orange and yellow, edged crimson and vermillion. Gold medal variety. Each 65c.

**ULRICH BRUNNER**—Flowers are a bright cherry-red, borne on long stems. Each 50c.

**UNA WALLACE**—A beautifully formed rose of luminous old rose color, without markings of any kind. Slightly fragrant, a profuse bloomer and a color that is quite different from any other variety. Each 65c.

**WM. F. DREER**—In general form this rose is very similar to Los Angeles. A deep golden yellow, heavily flushed and shaded deep peach and old rose. Each 50c.

**CL. LOS ANGELES**—It has all the excellent qualities of the original bush variety. It makes a heavy growth and produces lovely flowers of luminous flame-pink, toned with coral at the base of the petal. For further description see the bush varieties. Each 65c.

**CL. MAMAN COCHET**—A true sport of the bush variety so well known. Strong grower and excellent for foliage or flower. Each 50c.

**CL. MRS. AARON WARD**—Rich yellow, similar to the bush variety. Each 50c.

**CL. PAUL'S SCARLET**—Perhaps the most brilliant rose grown in Southern California. Color is a vivid shining scarlet, in large semi-double flowers which remain unusually long and in good condition on the plant. Each 50c.

**CL. ROSE MARIE**—Charming clear pink. The buds are long and pointed as in the bush form. Each 65c.

**CL. SUNBURST**—Same as the well known bush variety. As a climber for flower and foliage we recommend the Sunburst highly. Each 65c.

**CL. WHITE COCHET**—Large flowers of white, tinted pink. Should be used where heavy foliage is desired. Each 50c.



# Water Lilies and Aquatic Plants

Much charm is added to a garden in the acquisition of a water-lily pond, whatever size it may be. It is a simple matter to construct a pool which, once established, needs little attention beyond the ordinary care given a garden. We will gladly furnish gratis, upon request, a leaflet giving instructions how to build a pond and how to grow water-lilies.



Lotus or Nelumbium

## HARDY WATER LILIES

Packing and postage 10c extra for each Lily

**Alba Candidissima**—Early and free bloomer with large pure white flower. Each \$1.50.

**Aurora**—Flowers rosy-yellow on first day, changing to deep red on third day; stamens orange. Each \$1.50.

**Comanche**—Wonderful combination of orange and amber red. Largest and finest of all apricot tinted varieties. Early bloomer. Each \$3.50.

**Conqueror**—Early bloomer producing large, cup-shaped, fragrant flowers of violet rose shaded with white. Each \$5.00.

**Escarboucle**—Very striking color of vermilion-red. Exceptionally attractive and free bloomer. Each \$6.00.

**Gladstoniana**—Flowers pure dazzling white and cup-shaped. One of the best for large pools, being very massive and requiring plenty of space. Each \$1.50.

**Gloriosa**—Superb variety. Flowers of perfect form; petals concave; deep carmine rose becoming dark red late in season. Continuous bloomer. Each \$5.00.



**James Brydon**—Beautiful cup-shaped flowers of rich rosy-crimson color, reverse of petals having silvery sheen. Free and continuous bloomer. Each \$2.50.

**Mariacea Albida**—Large and fragrant flowers of sparkling whiteness with yellow stamens and sepals flushed pink. Continuous bloomer. Each \$1.50.

## Tropical Lilies

**Mariacea Carneae**—Color a soft flesh pink. Splendid companion to next variety, which it resembles. Each \$1.50.

**Mariacea Chromatella**—Flowers bright canary yellow and leaves deep green beautifully blotched with brown. Each \$1.50.

**Masanjello**—Novel coloring of rose-pink, dotted carmine with white sepals. The flower is very fragrant. Free grower, needing considerable room. Each \$3.00.

**Mexicana**—Handsome bright yellow flowers standing well above the water and very fragrant. Unique. Each \$1.00.

**Mrs. Richmond**—This new variety has enormous floating cup-shaped, fragrant flowers, tender violet-rose white sepals and yellow center. One of the most artistic varieties. Each \$2.50.

**Paul Heriot**—Upon opening the first day the flowers are canary yellow, suffusing to pink on the third day. Each \$3.00.

**Pygmaea Helvola**—Miniature yellow water lily. Very dainty sort for aquariums, tubs or shallow pools. Each \$1.00.



Hardy Lilies

**Robinsonia**—Distinct variety, the floating flowers having a ground color of yellow overlaid with purplish red. Each \$2.00.

**Rose Arey**—The flowers are large and deep cerise-pink in color. The pointed petals are curled giving a darker shading effect. One of the best of the odorata type. Each \$3.00.

**Somptuosa**—A very large flower, almost double; outside petals rosy-pink, gradually deepening toward the center to nearly crimson. Each \$3.50.

**Sunrise**—This rare variety has immense flowers averaging 10 inches across and is a consistent bloomer. Beautiful sulphur yellow blooms with huge green leaves mottled red. Each \$7.50.

**Wm. Doogue**—A magnificent lily. Beautiful shell-pink color and blooms continuously. Each \$1.50.

## TROPICAL WATER LILIES

**Daubeniana**—Remarkable variety in that the young plants spring from the upper surface of the leaves. As the plants grow the old leaf dies and they become individual plants. The flowers are very light blue, delicately scented. Each \$1.50.

**Mrs. W. C. Ward**—A charming variety with petals of rich rose-pink illumined by a mass of golden stamens. Each \$2.50.

**Pennsylvania**—A beautiful lily of great merit. The flowers are large and of a rich azure blue. Each \$5.00.

**William Stone**—Lovely star shaped purple flowers, 6 to 7 inches in diameter. Lasts a long time when cut. Each \$2.50.

**Zanzibarensis Azurea**—Beautiful water-lily, the flowers being large and of a clear azure blue. Each \$2.50.

## LOTUS

**Egyptian Lotus** (*Nelumbium Speciosum*)—Originated in India and taken to the Valley of the Nile where it became the sacred flower of the Egyptians. The blossoms are rose color and possess a haunting fragrance. Tubers \$3.50.

**American Lotus** (*Nelumbium Lutea*). (Yellow) Sometimes called the Water Chinquapin in parts of this country where it grows in the wild. The rich yellow flowers frequently attain a diameter of 8 to 10 inches. Tubers \$3.50.

**Zanzibarensis Purpurea**—One of the best in this class. Rich, dark blue flowers are produced on long stems. Each \$2.50.

**Zanzibarensis Rosea**—Similar to above. Color a deep rosy-pink. Each \$2.50.

**Zanzibarensis Rubra**—Splendid variety bearing flowers of very bright rosy-crimson. A free bloomer. Each \$5.00.

## SCAVENGERS

Snails are necessary to eat the algae and green scum and should be used in numbers. (Postage extra).

**Japanese Snails**—Large trap door variety. 10c, 25c and 50c each, \$10.00 for 100.

**African Snails**—Paper shell snails—medium sized snail. 5c each, \$5.00 per 100.

**Black Ramshorn Snails**—Black, medium sized snail. 5c each, \$5.00 per 100.

## SHALLOW WATER PLANTS

(Postage Extra)

**Arrowhead, Giant** (*Sagittaria sagittifolia*)—Leaves shaped as name indicates and stand 1-3 feet above water. 25c each, \$2.00 doz.

**Cat-Tail** (*Typha latifolia*)—A favorite native swamp plant. 25c each, \$2.00 doz.

**Water Hyacinth**—Hyacinth-like flowers in lilac rose. 10c each, \$1.00 doz.

**Yellow Flag** (*Iris Pseudacorus*)—Sword leaved plant with broad yellow flowers. 50c each.

**Ludwigia Mulletti**—Leaves are green above and pink on the reverse. Bunch of 5 strands 25c.

**Parrot Feather**—Valuable for training over the fountain edges. Bunch of 5 strands 25c.

**Pickel Rush**—Pretty blue flowers. Each 50c.

**Water Poppy** (*Hydrocleis nymphoides*)—Large yellow poppy-like flowers. Continuous bloomer. 10c each, \$1.00 doz.

**Water Hyacinths and Arrowhead**

**Water Poppy** (*Hydrocleis nymphoides*)—Large yellow poppy-like flowers. Continuous bloomer. 10c each, \$1.00 doz.

**SUBMERGED OR OXYGENATING PLANTS**

(Postage Extra)

These plants are essential to provide food, shelter and oxygen for the fish.

**Anacharis**—Bunch of 5 strands 10c.

**Corn Tail**—Bunch of 5 strands 10c.

**Heteranthera**—Bunch of 5 strands 10c.

**Sagittaria**—25c each, \$2.00 doz.

**Eel Grass**—Long ribbon like leaves. 10c each, \$1.00 doz.



# Chrysanthemum Plants

No garden should be without a bountiful supply of this universal favorite, furnishing as it does a profuse array of color when other flowers are scarce. It is not satisfactory to leave old plants of Chrysanthemums year after, and it is advisable to introduce fresh stocks propagated from the new growth from old clumps left over from the year before. Young plants should be set out any time from April to the middle of June, in a sunny open place well fertilized. Plant about 15 inches apart in the row and 2½ feet between the rows. When the plants are 4 to 6 inches high pinch out the tops. Later select the best and strongest shoots, perhaps two of them, removing all others. These will supply two good flowers to each plant; however, you may leave more shoots for more flowers, but they will be smaller. Water about once each week, following each irrigation with thorough cultivation. Sprinkling occasionally will help prevent Red Spider and stimulate growth. If the leaves curl or become discolored, or any kind of Mildew makes its appearance, spray immediately with a solution of 2 teaspoonfuls of Destruxol to one gallon of water, and a few days later spray with Bordeaux Mixture. Spray as often as it is necessary to keep the plants clean. The varieties we offer are all strong, well rooted plants, propagated from cuttings.

## NOVELTIES

Price 30c each, \$3.00 per dozen of one variety. Packing and postage 25c dozen extra.

**Cream Spider**—A very fine spider-like flower. Cream colored, tinted with pink. Easily grown and large flowered without disbudding.

**Fuji**—Pale lavender. Petals 8-10 inches.

**Jiu Jitsu**—The jester of the field, dressing half in white and half in pink. A good producer and splendid for bouquets and baskets.

**Ostrich Plume**—Large, white, with long thread-like petals. Marvellous flower.

**Bronze Petaluma**—A quilled light bronze that produces a spidery-like flower.

**Pink Petaluma**—One of the prettiest quilled picks yet offered.

**Red Spider**—Beautiful red spidery flowers.

**White Thread**—Very interesting. Splendid for bouquets and baskets.

**Collection**—Set of the above 8 varieties \$2.00. Postage 15c extra.

## Standard Varieties

Price 20c each, \$2.00 per doz. one variety. Packing and postage 25c doz. extra.

**Appleton**—Large yellow incurve.

**Black Hawk**—Dark, crimson scarlet, a fine red for all purposes. Semi-dwarf.

**Chrysolora**—Best yellow for early October. Fine incurve form with perfect stem and foliage.

**Dr. Enguehard**—Bright rose pink.

**Edgar Saunders**—Latest of all bronze.

**Golden Glow**—A bright yellow with good stem and foliage. Earliest variety in this class.

**Harvard**—A very dark crimson of reflexed form.

**Jeanne Nonin**—Fine, white incurve. Late November and December flowers.

**Lady Houpetoun**—A fine mid-season pink.

**Mikado**—Deep bronze; late.

**Mrs. Geo. Pullman**—A beautiful clear yellow Japanese reflex.

**Nerissa**—Enormous size, fine form and finish. Good exhibition flower. Color rosy mauve. Strong, upright growth, rigid stem. Well adapted for specimen plants.

**Pink Gem**—Light pink.

**Roman Gold**—An intense yellow with perfect stem and foliage.

**Rose Perfection**—Light pink of constant color and can remain uncut after full maturity without impairing its beauty.

**Silver Wedding**—Purest white reflex.

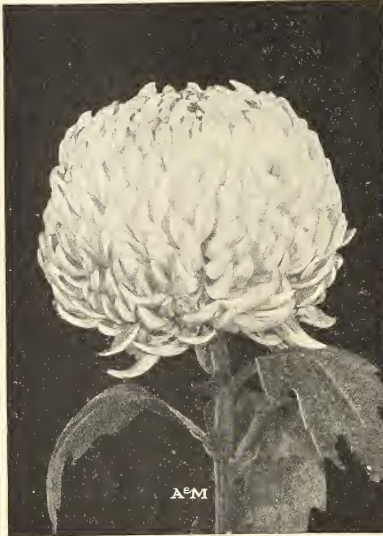
**Smith's Sensation**—Delicate cameo incurve pink.

**T. Carrington**—A large show flower of reddish violet with lighter reverse. Reflexed. When not disbudded makes an immense bush.

**Tekonsha**—A splendid large bronze, strong upright growth.

**Wm. Vert**—Bright crimson of large size, reflexed form, strong growth. Semi-dwarf.

**Collection**—One each of 12 popular sorts, \$2.00. Postage and packing 25c extra.



A & M Standard Type

## Large Japanese Anemone

Price 20c each, \$2.00 per doz. one variety. Packing and postage 25c per doz. extra.

**Graf Von Fleming**—Very beautiful clear lavender.

**Mrs. Owen Winston**—Brilliant yellow. Orange center. Good market variety.

**Yellow Prince**—Maize yellow, with orange cushion. Very fine.

## Special Long Season Collection

This collection contains—

6 Standards.

4 Pompons.

1 Single type.

1 Anemone type,

each a different variety. They are among the easiest to grow and have been chosen for the riot of color they produce throughout the entire Chrysanthemum season. They embrace a full range of color in red, yellow, pink, bronze, white and purple.

12 plants—not individually labelled—Special price \$1.00; by mail \$1.10.

## Anemone Type

Price 20c each, \$2.00 per doz. one variety. Packing and postage 25c doz. extra.

**Bronze Brilliant**—Vivid orange red flower of exceptional value.

**Chestnut**—Tan colored. Matures early November.

**Godfrey's Perfection**—Four rows petals—small yellow cushion. Matures for Thanksgiving.

**Izola**—Wonderful sprays of amaranth.

**Maple Leaf**—Various shades of red and yellow, changing its color as it develops.

**May Colladay**—Rich, rosy lavender. Good keeper. Free bloomer.

**Vivian Martin**—Baby anemone-ray petals, creamy pink, center yellow.

**Collection**—Set of above 7 varieties, \$1.15. Postage 15c extra.

## Single Type

Price 20c each, \$2.00 per doz. one variety. Packing and postage 25c doz. extra.

**Anne**—True single. One row of white petals. Splendid for basket work.

**Ceddie Mason**—Deep crimson.

**Charlotte Waite**—Deep rose pink with clear yellow center. Free bloomer. Very late.

**Gladys Duckham**—One of the largest whites. Good keeper.

**Ida Catherine Skiff**—Brilliant bronze-amber. Fine for cutting.

**Irene**—Deep lavender; white around center.

**Josephine**—Bright yellow. Wonderful keeper.

**Louise**—Salmon pink. Blooms early in October. Six weeks.

**Collection**—Set of 8 varieties \$1.30. Postage 15c extra.

## Pompons

Price 20c each, \$2.00 per doz. one variety. Packing and postage 25c doz. extra.

**Baby Margaret**—Small white button on stiff stems. Good keeper.

**Billie Burke**—Small button type—matures for Thanksgiving. Golden bronze.

**Bokora**—Combines all the tints of red, rose and bronze seen in autumn leaves.

**Dorothy Gish**—Smallest white button.

**El Reno**—Golden bronze. Fine flower.

**Ethel**—A bright rose pompon. Gorgeous in color. Splendid as a pot plant.

**Golden Crest**—Bright golden yellow sprays.

**Golden West**—Deep yellow. Late bloomer. Button type. One of the best.

**Leilah**—Wonderful rose-pink. Does not fade in sunlight.

**Marguerite Clark**—Rose pink button type.

**Mary Pickford**—White button, perfect form.

**New York**—Fine bronze.

**Niza**—Early delicate pink. Medium size.

**Romaine Warren**—Deep orange bronze.

**Rose Charm**—Bright rose pink. Fine sprays and strong growth.

**Rufus**—Crimson maroon. Late bloomer. Very small flower.

**Yellow Fellow**—A good variety for middle November. Blooms are of the large pompon type borne on rigid stems.

**Yellow Metal**—Dwarf grower. Extremely free flowering. Clear yellow with center showing red.

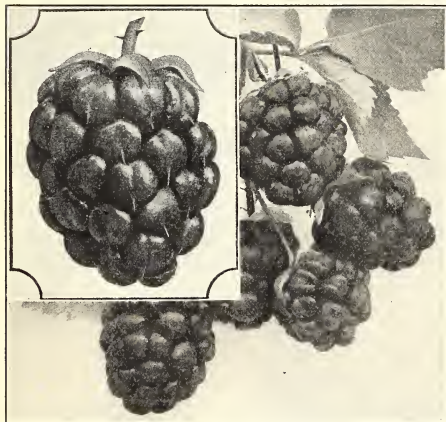
**Yuletide**—Pure paper white.

**Collection**—One each of 6 popular sorts \$1.00. Packing and postage 15c extra.



# Berries

We can supply the following plants in large or small quantities. Our offerings are limited to what we consider the very best varieties in each case. Prices on small quantities include postage, but larger quantities are f. o. b. Los Angeles and will be sent by express. No plants will be sent C. O. D.



Youngberry

## YOUNGBERRY

A New Berry of Exceptional Merit

This new type of fruit was produced scientifically by crossing the loganberry with the dewberry, and it combines to a remarkable degree the most desirable qualities of all other berries. Its sweetness makes it a fine fresh table berry comparable to the strawberry. It also has the pleasant flavor of the red raspberry, the juiciness of the loganberry, and the jelling and canning qualities of the blackberry. The seeds are small, and there is no acid.

One year old plants produced at the rate of 20,400—8 oz. baskets to the acre and it is estimated that two year old plants give a fifty per cent heavier yield. The season for ripening in Southern California is from the middle of May to the middle of July. No special method of culture is required, but good soil cultivation and a moderate amount of moisture will give desired results. Set the plants 5 or 6 ft. apart in rows 8 ft. apart, for commercial use. In the home garden the plants can be trained much higher than in the field and they can, therefore, be set closer together in the rows. Plant during January, February and March.

Each 20c, 6 for \$1.10, dozen \$2.00, postpaid. Not prepaid—100 for \$10.00, 1,000 for \$80.00.

## ATHEL CUTTINGS

*Tamarix articulata* (Athe Tree)—A rapid growing bushy tree used extensively in recent years as a windbreak especially in hot dry sections. The trees are propagated from cuttings which should be set where they are to remain. When planting leave only an inch or two above the ground. Cuttings (1 foot) \$1.00 per doz, postpaid.

## GROW YOUR OWN PLANTS

Because of the danger of introducing new soil pests or fungus into your soil, you should grow your own plants. Tomatoes, peppers, egg plant, in fact all vegetable and flowering plants may be grown very easily in small boxes or beds and transplanting directly from these will be found more satisfactory than to have plants delivered or sent by mail. In addition to this you have a greater choice of varieties and when the seed is purchased from a reliable source you are assured of better vegetables and better flowers. In planting flower seed, a light covering of well decayed barnyard fertilizer or leaf mould should be used as a covering for the seed and the seed should not be covered to a greater depth than twice or three times the diameter of the seed itself. Placing a burlap bag on the top of the seed bed or box, laying it flat on the surface and watering through it will assist in holding moisture and better germination will result. The burlap should be removed when the seed begins to germinate and the soil kept thoroughly moist at all times.

## RASPBERRIES

Set the plants 4 feet apart in the rows and support on parallel wires. When the new growth reaches a height of 2 or 3 feet pinch out the tips to induce lateral growth. The laterals should also be pinched off. After the crop is harvested remove the old wood so that all the energy of the plant will be forced into the new growth.

**St. Regis Raspberry** Very early, fruit round oval red. A very pronounced flavor. Each 20c, 6 for 85c, doz. \$1.50, postpaid. Not prepaid, 100 \$10.00, 1,000 \$90.00.

**Cuthbert** Old standard variety bearing large deep crimson berries of fine flavor. Ripens over a long period. Each 20c, 6 for 85c, doz. \$1.50, postpaid. Not prepaid, 100 \$10.00, 1,000 \$90.00.

**Black Cap Raspberry** Familiar to many who have grown them in eastern climates. Each 20c, 6 for 85c, doz. \$1.50, postpaid. Not prepaid, 100 \$10.00, 1,000 \$90.00.

## LOGANBERRIES

A wonderful berry and entirely in a class by itself. Runners should be trellised on wires. When fruiting season is past remove the fruiting canes and wind the new canes around the wire. Another method for the home garden is to set three posts in the ground, nail two or three barrel hoops above the plants and train the runners through and over the hoops. Set plants 6x8 feet. Each 20c, 6 for 85c, doz. \$1.50, postpaid. Not prepaid, 100 \$10.00, 1,000 \$90.00.

## STRAWBERRIES

**A & M Progressive** The A & M Progressive will bear a full crop the first year if properly handled. Because it does not make many runners, the plants should be set close, say 10 to 12 inches in the row and about 22 inches between rows. This distance apart requires 20,000 plants to the acre. Encourage runners and new plants by frequent irrigation and fertilizing. Never cut off the runners, but rather train them along the row and strive for a matted row. 50 plants \$1.35, 100 plants \$2.50, postpaid. Not prepaid, 1,000 \$20.00. Write for quantity price.

**A & M Mastodon** New strawberry of huge size. Unlike other overbearing varieties, the plants are large and heavily crowned. Notwithstanding its size it is extraordinarily prolific, bearing strongly throughout the summer to early fall. The quality of the berry is supreme. 12 plants 75c, 50 plants \$2.75, 100 plants \$5.00, postpaid.

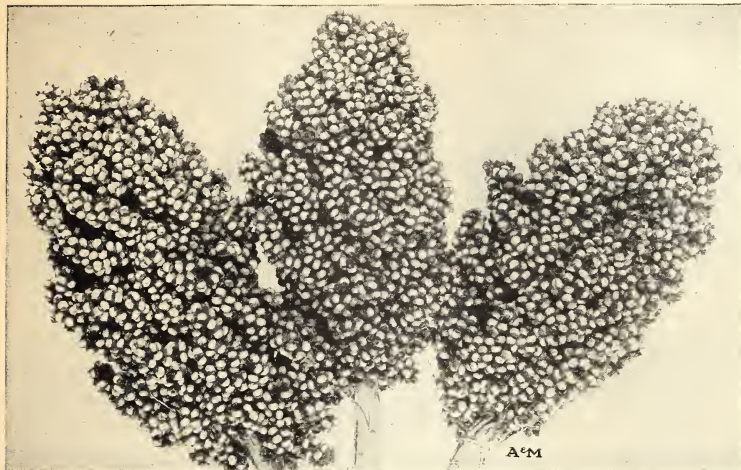
**Improved Klondike** This variety does well in hot sections. It is a vigorous grower, very prolific and yields over a long period. A medium size berry of good flavor and is an excellent shipper. 50 plants \$1.00, 100 plants \$1.75, postpaid. Not prepaid, 1,000 plants \$15.00.

## HORSERADISH

Horseradish needs moisture and partial shade for best results. The plant does not attain full size in one year and continues to enlarge with age. Plant roots about two inches under the soil and about 1½ feet apart each way. Roots—1 doz. 35c, 100 \$1.50, postpaid.

**Send for FALL BULB CATALOGUE, Ready September 1st**

## FARM SEEDS



The  
Heaviest  
Yielding  
Maize  
Grown  
Specially  
Selected  
by us  
for Years

### A & M SELECTED DWARF MILO MAIZE

Since the cost per acre of Milo Maize Seed is very small it certainly pays to secure the best seed obtainable. Where the soil is properly prepared it requires but 3 to 4 lbs. per acre, therefore, the cost of seed would be but a few cents, hence Milo Maize Seed should be considered entirely from the quality standpoint. Yield of grain per acre is what you want and you cannot afford to experiment on strains that are being grown by inexperienced growers.

Being of uniform height it may be harvested by machinery but, if harvested by hand, the large heads reduce the cost of harvesting. It grows to a height of about 4 feet, is of stooiling habit, and individual hills of 5 to 7 stalks in a stool each producing a large compact head are not uncommon throughout the field. We have had reported yields of two tons of threshed maize per acre and where the soil and climatic conditions are favorable we feel that this is a very conservative estimated yield. Very often there is a temptation among farmers and others to save their own seed of Milo Maize or to plant seed that has been produced in their own district, but since it is very easily crossed with other sorghums this is a bad practice and we advise against it. We produce our seed maize in isolated districts where there are no other sorghum crops grown near and by hill and head selection each year, the strain is kept uniform and true. Considering again that it requires but a few cents per acre to plant the very best milo maize seed there appears to be no good reason why the planter should experiment with untried strains. If you are going to plant Maize, let us send you a sample of our seed and quote prices on quantity.

(Lb. 25c) (10 lbs. \$2.00) (25 lbs. \$3.00) postpaid. Write for quantity price.

### DOUBLE DWARF MILO MAIZE

This variety of red milo maize is very dwarf, growing only 2 to 2½ feet high and has been developed especially for convenience and economy in harvesting. It can be cut and harvested by machinery in the same manner as heading grain. Very profitable crop to grow, the average yield being two tons per acre. Sow at the rate of 4 to 5 lbs. per acre from April until middle of June. (Lb. 25c) (10 lbs. \$2.00) (25 lbs. \$3.00) postpaid. Write for quantity price.

### SACCHARINE SORGHUM

**CULTURE:** All sorghums, saccharine or non-saccharine, should be sown in rows 30 or 36 inches apart, using five or six pounds of seed per acre. If irrigated it is necessary to cultivate it after each irrigation. It is advisable to give a shallow cultivation every two or three weeks until it becomes too large. The sorghum is ready to cut for the silo when the seed has matured.

**Honey** This variety is very desirable because of the large yield of grain, as well as enormous growth of forage. It is given special recommendation in the Farm Bureau Monthly, and has proven highly satisfactory to all who grow it. (Per lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

**Early Amber** The Early Amber has been grown in California for many years and has always proven entirely satisfactory. It grows twelve feet tall when allowed to mature, but it stools to a wonderful extent when cut about every four weeks. (Per lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

#### READ

If you need forage for your horses, cattle or hogs, Sorghum planted about April 1st will furnish you the best feed in the shortest space of time. One-half acre will feed four head of stock all summer if only enough is cut each day for one day's need. In this way one can cut continuously all summer. As much as 40 tons may be cut from one acre.

### NON-SACCHARINE SORGHUM

**Egyptian Corn** This is grown chiefly for the foliage to pasture when young, but yields largely of grain. The chief merit of these fodder crops is in their hardness to produce fodder and grain with almost no rainfall or irrigation. Sow eight pounds per acre drilled. (Per lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

**Feterita** Very popular on account of its astonishing growth after it becomes well rooted. Every testimonial received expresses astonishment at its rapid growth.

Sow 12 pounds of seed per acre drilled two feet apart; by so doing it yields 5000 to 6000 pounds of grain per acre.

The grain has about the same feeding value as Egyptian Corn or Milo Maize; yields from two to three tons of grain per acre. The seed is more susceptible to cold than other sorghums, therefore should not be planted so early, nor should it be planted in cold soil.

The second growth stools wonderfully, producing several tons of excellent forage for pasture or for ensilage after the seed has been harvested. It thrives luxuriantly on soil so alkaline that field corn will not thrive. The heads are upright. (Per lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

**Napier Joins** We offer for introductory purposes. (10 joints \$1.00) (25 joints \$2.00) (50 joints \$3.00) (100 joints \$5.00) Postpaid.



# The Wonder Forage Plant



Wonder Forage—Our Seed Field

It stools from ten to forty full sized stems the thickness of a thumb and smaller. When the main stems mature, separate branches grow from each joint bearing other seed-heads.

The stems are succulent and sweet, as saccharine cane, not dry as non-saccharine cane, therefore it is as good as sorghum for dairy cows. Stock will eat every particle of it.

Our demonstration clearly indicates the Wonder Forage Plant will yield double the tonnage of any other sorghum. Five pounds of seed is sufficient to plant an acre.

Dairymen, each year that you delay planting this Wonder Forage Plant (Sudan Sorghum) you are missing something worth while for green forage. One acre of Wonder Forage is more valuable than three acres of Sudan Grass, both in quantity and quality. One acre is equal to two acres of sweet sorghum. The latter can be cut but once, the former twice with equal tonnage. (To do this will require good soil and ample irrigation, but it will do it.) It has less sugar content than sweet sorghum, but must be classed as a saccharine. Do not waste another season by holding off. It is so much better than Sudan that there can be no comparison.

Stockmen, if you want a rich, green feed, sow the Wonder Forage.

(Per lb. 40c) (10 lbs. \$3.50) postpaid. Write for quantity price.

## Grasses

### AUSTRALIAN RYE GRASS

Used extensively for lawns, particularly in the Imperial Valley, Salt River Valley, Arizona, and similar climates. It grows faster than Blue Grass, is coarser and will stand considerable abuse or neglect. For back yards, where it might be walked over frequently or where children play, it is a very good grass. Lb. 40c, 10 lbs. \$3.50 postpaid. Ask for quantity price.

### ITALIAN RYE

(*Lolium italicum*)

Arrives earlier at maturity than Perennial and produces a large amount of nutritious herbage. Its duration being but two or three years, it is not adapted for permanent pastures, yet highly valuable for rotation of crops. It is specially adapted for sowing in autumn with oats, barley, rye or clover, as a catch-crop for fattening stock. Sow 30 pounds per acre. (Per lb. 35c) (10 lbs. \$3.00) postpaid. Write for quantity price.

### PACEY'S RYE

An excellent hardy grass for the coast range, on hillsides and meadows. It resists drouth, wonderfully and is quick to recover after a slight rainfall. Sow 30 lbs. per acre. (Per lb. 45c) (10 lbs. \$3.80) postpaid. Write for quantity price.

### CHEWINGS FESCUE

One of the best grasses to sow in a meadow. Mixed with Red Top and White Clover it is a valuable pasture grass. It is also suitable for lawns and hitting greens. Sow 20 lbs. per acre. (Per lb. 45c) (10 lbs. \$4.00). Write for quantity price.

### ORCHARD

(*Cocksfoot*)  
(*Dactylis glomerata*)

This grass does well sown either with or without other grasses. It is frequently sown in such pasture mixtures as white clover, red clover and rye grass. If sown alone, 25 or 30 pounds of the Cocksfoot seed will insure a good stand of grass.

(Per lb. 35c) (10 lbs. \$3.00) postpaid. Write for quantity price.

### RED TOP

(*Agrostis vulgaris*)

Red Top is a perennial grass which grows from a few inches to five feet in height under varying conditions of soil and climate. But the average height is probably 18 to 20 inches. It is now more highly esteemed as a pasture grass than for a hay.

No other useful grass would seem so well adapted for growing in wet situations, even in places so moist as to be saturated with water for a considerable portion of the late autumn and the early spring.

The soil should be carefully prepared. Thoroughly pulverized and clean of weeds. Sow broadcast 14 lbs. of seed per acre. Also planted with other grasses for lawns.

(Per lb. 45c) (10 lbs. \$4.00) postpaid. Write for quantity price.

### RUSSIAN BROME

(*Bromus inermis*)

*Bromus inermis* is one of our hardiest perennial grasses; no amount of cold will kill it. It withstands the severest drought, and water may stand on it for weeks. It will grow on any rich soil.

It requires twenty pounds of seed per acre. Russian Brome Grass is essentially a winter pasture grass, but it also makes good hay. All kinds of stock are fond of it, and no other grass, unless it be orchard grass, will furnish grazing for so large a portion of the year. Its producing and feeding value for hay is about equal to that of timothy.

(Per lb. 50c) (10 lbs. \$4.50) postpaid. Write for quantity price.

### SUDAN GRASS

Has made good and has become more popular each year. It is not particular as to soil—endures much alkali—an annual—planted during April, first cutting in sixty days may yield four tons of dry hay per acre and three to four tons may be cut each thirty days until October.

Twelve pounds of seed is required to plant an acre in order to produce hay of fine quality.

Sudan Grass thrives with excessive moisture and endures extreme drouth. In the months of August and September, when all other grasses are dry, then is the time that Sudan is most valuable for fall pasture for cattle and hogs.

Sudan Grass is ideal for growing with the Whip-Poor-Will Cow Peas. The stem is stiff enough to support the vines. (Per lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

### HARDING GRASS

This grass is a true perennial, one seeding being good for years. It cannot become a pest because all spread is from the crown. It never bloats. Will stand heavy tramping of sheep or cattle.

Old pastures or burned over land should be sown after the heavy winter rains have set in.

(Per oz. 35c) (lb. \$3.50) postpaid.

### RHODES

(*Chloris Cayana*)

Mr. Dairymen, there is no longer any excuse to permit any alkali lands to be wasted with ar weed. Your alkali lands are now a valuable asset. Rhodes grass will increase the value of these acres several fold.

Rhodes grass does not grow underground sprouts like Johnson or Bermuda grass, but sends runners over the surface like the strawberry plant. It is easily eradicated.

Rhodes Grass will smother Bermuda and other weeds because of its dense growth. It is easily eradicated by being plowed once and let stand for sixty or ninety days. It adds humus to the soil.

The best time to plant Rhodes Grass is from March 1st to August 1st. Broadcast twelve pounds of seed per acre.

(Per lb. 85c) (10 lbs. \$7.50) postpaid. Write for quantity price.

### DALLAS

(*Paspalum dilatatum*)

Grows on any kind of soil—endures some alkali—excellent for permanent pasture on marshy mesa—grows winter and summer with moisture—excellent for hay—may be cut every six weeks—becomes dormant with drouth but revives with less moisture than any other grass, yet will survive if submerged for several weeks—stools and seed freely.

The seed takes root among the weeds and devil grass, choking out everything in its way. The dense matting roots make a thick sod capable of supporting the cattle on marshy land. The stock relish it fully as well as alfalfa. It is as easy to graze upon it from 7 to 9 months in the year according to locality. Sow seed during May and June, five pounds per acre. It is sufficient to sow one acre broadcast. It thrives in high altitude.

(Per lb. \$1.00) (10 lbs. \$9.00) postpaid. Write for quantity price.

### BERMUDA

(*Cynodon dactylon*)

Bermuda Grass is unquestionably the best pasture grass in the south, viewed from the standpoint of palatability, productiveness and endurance. There are reasons for believing that in its proper sphere it will produce more grazing and more meat than blue grass under the most favored conditions. Sheep can graze upon it from 7 to 9 months in the year according to locality. Sow seed during May and June, five pounds per acre.

(Per lb. 50c) (10 lbs. \$4.50) postpaid. Write for quantity price.

Lawn Grasses—See Page 32.

# CROPS FOR SOIL RENOVATION

Inoculate with McQueen's Culture—See page 15.

## Winter Crops

### Melilotus alba

We have come to the conclusion that, except on sandy soils, it is better to broadcast the seed than to drill it. This is especially true where there is alkali. Sweet-clover seed should be very close to the surface. A light harrowing or dragging with a light brush drag, will mix the seed with the soil sufficiently for germination. It is better, too, to sow the seed in the fall and let the rains bring it up. It gets a better start that way.

Melilotus alba is being recognized more and more each season as a valuable soil renovator. Because of its large and extensive root system penetrating deep into hard subsoil, there decaying, permits moisture to enter and break up the hardpan that plowing may become deeper and more thorough. These roots have gathered nitrogen and add much humus, all of which is essential to building up new or run-down soil.

Melilotus has other uses in soil renovating; it will grow in alkali soil and reclaim it. Therefore if you have any land that will be benefited by Melilotus alba by all means plant it. (Per lb. 35c) (10 lbs. \$3.00) postpaid. Write for quantity price.

### Melilotus indica

Was introduced by us in 1909, has now become recognized as one of the best legumes for green manuring in the orchards of California, because it may be planted late in the fall after all crops have been harvested, will grow all winter with only the season's rainfall.

It prevents erosion during the rainy season, is easily plowed under, is richer as a fertilizer and if allowed to stand until July will prevent much of the June drop.

Melilotus indica is the best legume with which to build up your soil during the rainy season for the summer crop to follow, particularly potatoes and melons. (Per lb. 20c) (10 lbs. \$1.50) postpaid. Ask for quantity price.

### Burr Clover

A native clover and one of the best nitrogen-gathering crops. Needs but little moisture and will thrive on very poor soil. If your grazing lacks native grasses, plant Burr Clover. (Lb. 30c) (10 lbs. \$2.50) postpaid.

### Canadian Field Pea

When it is too late to plant Vetch or Melilotus plant Canadian Peas.

They may be planted as late as January and yet be plowed under in time for planting a summer crop. If your summer crop, like melons and potatoes are not harvested until November plant Canadian Peas.

Neither is the Canadian Pea inferior to other cover crops when planted at the right time. The right time is from September until February and on any kind of soil.

Notice—Do not plant just before a rain nor irrigate before the seed is well above the ground and established. If the soil is too wet after planting the seed will rot. (Per lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

### Purple Vetch

The chief value of Purple Vetch lies in its rapid growth. It does not have the same tendency to stop growing when the thermometer registered around 26 degrees as do many other varieties of cover crop. However it does not stand quite as much cold as melilotus indica. It is one of the leading cover crops for planting during the rainy season in citrus orchards and for this purpose 60 lbs. should be sown to the acre. It is also a valuable crop for hay or silage. (Per lb. 25c) (10 lbs. \$2.00). Write for quantity price.

### Common Vetch

This variety also makes an excellent cover crop for fall sowing and is commonly sown with oats, wheat, rye or barley. When grown together the vetch is holding up the ground and at the same time fertilizes the grain crop. For this intention sow 30 lbs. grain and 20 lbs. vetch to the acre, or if planted alone, 60 lbs. of vetch per acre. (Per lb. 25c) (10 lbs. \$2.00). Write for quantity price.

### Broad Windsor Bean

Sometimes called Horse Beans, grows upright on a single stem bearing a profusion of large well-filled pods. The roots are enormously productive of nitrogen. It will withstand 28° temperature; therefore, may be planted as late as September or best results as a winter cover crop. (lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

### Small Windsor

(Small Horse Bean) This is identical with the Large Horse Bean except that it will not grow as large, but is preferred by many for green manuring because of the smallness of the seed it requires fewer pounds to plant an acre and it is argued that more plants per acre will produce more nitrogen. (Per lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

## Summer Crops

### Whip-poor-Will Cow Pea

For many years the Whip-Poor-Will has been the standard summer crop for green manuring not only here but throughout the South.

(1) It will grow on practically all kinds of soils, whether sandy or clay, poor or fertile.

(2) It is of the easiest culture.

(3) It has a big, strong, deep-root system, well supplied with large nitrogen gathering nodules.

(4) It revels in summer heat, and is extremely drought-resistant.

(5) It grows very rapidly, shading the soil from excessive heat, and leaving no room for noxious weeds.

(6) It greatly benefits the succeeding crop by accumulation of nitrogen in the soil.

(7) It leaves the soil in fine physical condition for the fall planting of grain or other winter crop.

(8) It produces an abundance of highly nutritious pods and leaves in a few months.

(9) It may be made into hay or ensilage, or pastured, the seeds may be used for stock feed or human consumption.

Plant 40 lbs. per acre any time from April 1st until Sept. 1st. (Per lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

### Brabham Cow Pea

It has only recently been determined definitely that the Brabham is resistant to nematode. This discovery places the Brabham foremost as a desirable summer crop for green manuring. Few districts are free from nematode and while other crops nursed it thus spreading it over wider territory, the Brabham will discourage its development and if repeatedly planted may eradicate it from the field in which the Brabham is grown.

Under the light of the discovery that the Brabham pea is resistant to the nematode, to plant it would seem the wiser thing to do. (Per lb. 25c) (10 lbs. \$2.00) prepaid. Write for quantity price.



Cow Peas in Orchard

### The Blackeye

This bean is always profitable to the grower because it yields 1500 to 2500 pounds per acre without irrigation, and on almost any kind of soil. It is a good cover crop and soil renovator. The beans are ready market at a fair price. Rabbits will not eat the Blackeye. Plant 30 to 40 lbs. to acre. (Per lb. 25c) (10 lbs. \$2.00) prepaid. Write for quantity price.

### Soy Bean

The Soy Bean is being more generally used as its merits become known. The importation of the Soy Bean from the Orient makes it unprofitable to grow for commercial beans or for seed but for early spring planting, for June cover crop and for green manuring it is very valuable and under certain conditions of soil may be preferred to clover or vetch. It is harder than the cow pea and on that account may be planted earlier. It is valuable to grow in young vineyards either to be plowed under or for green feed for dairy cows. (Per lb. 25c) (10 lbs. \$2.00) prepaid. Write for quantity price.





A &amp; M Ensilage Corn

## A & M Alfalfa

INOCULATE WITH McQUEEN'S—SEE PAGE 15

**Chilean or Common** This variety has proven so entirely satisfactory to everyone for more than forty years that nothing better was looked for, and is indeed now so thoroughly satisfactory that many will hesitate to believe that any variety of alfalfa can be better.

Write to the University Farm, Davis, Cal., and ask for their latest reports concerning Hairy Peruvian alfalfa as compared with the Chilean or Common Alfalfa, or write us for our Alfalfa bulletin.

We have often been asked where the seed which we sell was grown, some being under the impression that Alfalfa seed produced in particular sections is preferable, but we have found, through careful investigation, that such is not the case and no certain section is favored in producing superior seed.

If the stock is of high germination, free from noxious weed seeds, and true to name, that is the great consideration.

Broadcast 20 lbs. per acre.

(Lb. 40c) (10 lbs. \$3.50). Write for quantity price.

**Hairy Peruvian** We first offered this variety in 1913. It is harder and it does produce more hay the first year than common alfalfa, but it does not endure as well. Many large growers now prefer the common alfalfa. With these comments we offer the Hairy Peruvian Alfalfa to those who may have had better results and yet prefer it.

A Virginia Bulletin, No. 207, page 10, says: "Many failures in growing alfalfa may be attributed to lack of inoculation."

Wherever we find successful old fields of alfalfa, if the roots are carefully dug up and examined the supply of bacteria nodules will be found to correspond to the vigor and quality of the plant." (Lb. 40c) (10 lbs. \$3.50). Write for quantity price.

## A & M Field Corn

### ORANGE COUNTY PROLIFIC

#### THE MOST SATISFACTORY SILAGE CORN

Orange County Prolific was introduced by us in 1911. At that time we had stalks on exhibition with nine ears of commercial size and others that were smaller.

The season just past indicates, by numerous testimonials, that Orange County Prolific corn leads all other varieties both for corn or silage.

We have a report that the Orange County Prolific planted July 25th produced 28 tons per acre. (Per lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity prices.

**Mexican June** The corn for the arid southwest. When the white man was a pioneer in Arizona and New Mexico, he tried to grow corn but failed. The country and climate were condemned corn could not be grown but thanks to the good work of the various state and federal experiment stations, we have the Mexican June. This has been bred up by years of selection from seed which has existed among the Indians from time antedating the Aztecs. Imperial Valley growers realized its merits some years ago. In Arizona, New Mexico and Texas, it is now grown where no other variety will thrive. (Per lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

**A & M Ensilage Corn** This has long been a favorite for the silo and there is no other corn we know that will take its place. It is very stalky, stands up well and yields a heavy tonnage per acre. Under irrigation and on good soil it has produced more ensilage than any other corn. If you want ensilage and plenty of it plant A & M Ensilage Corn. (Lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

**Hickory King** An early white corn which is planted for grain. In some districts it is very prolific and is one of the main varieties planted in California for this purpose. Matures in 110 days. (Lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

**Big Jim** Very fine variety of yellow dent corn. The large ears averaging 12 inches in length are very prolific, producing an extraordinary heavy acreage yield. It is also very desirable for ensilage, as the stalk attains a good height with a big leaf growth. (Lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

**King Philip** A yellow dent 90-day corn planted quite extensively in California for grain. (Lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

## Clover for Forage

**Melilotus alba** This is a valuable addition to the farm as a forage crop. When quite young, it may be pastured or cut and cured for hay. This should be done just before the bloom appears. It is the bloom which is more drought-resistant, and better for renovating the soil. It may be cut twice the first season and three or four times the second season, yielding 2500 to 3000 pounds of hay each cutting. It is as easy as alfalfa to eradicate its biennial. On account of its hardness to resist extreme cold, heat and drought it is grown largely for pasture. It is highly recommended by the Department of Agriculture. (Per lb. 35c) (10 lbs. \$3.00) postpaid. Write for quantity price.

**Ladino Clover** A new green feed for poultry. This recent introduction from Italy has proven to be a remarkable discovery as a green feed for poultry. It yields far more abundantly and withstands frost much better than Alfalfa. Each plant sends out runners 12 inches long and each joint takes a new root. Sow seed sparingly, 1 lb. to 4 ac. to allow for this spreading. It can be cut continuously throughout the entire year and makes good pasturage. Needs plenty of moisture. (Per lb. \$1.65) (5 lbs. \$7.50) postpaid.

**Hubam Clover** Hubam is a rapid growing annual sweet clover attaining a height of 7 feet. It is valuable as a catch crop, for pasturage and as a hay crop. The flowers are rich in honey and on this account it is sown freely by bee keepers. Planted in citrus groves in February or March it forms a perfect cover crop. Sow 12-15 lbs. per acre. (Per lb. 60c) (10 lbs. \$5.00) postpaid.

**Red Clover (Common)** There is a place for Red Clover, but not where alfalfa thrives.

It is harder than alfalfa, therefore we recommend it for higher latitudes or farther north than the San Joaquin Valley where it will not be subject to the hot dry atmosphere of the interior valleys nor to the climate of Southern California. (Per lb. 60c) (10 lbs. \$5.00) postpaid. Write for quantity price.

**Mammoth Red Clover** In England and in English "Cow Grass." The name recommends it to dairymen.

The same instructions for common Red Clover apply also to Mammoth Red Clover. (Per lb. 60c) (10 lbs. \$5.00) postpaid. Write for quantity price.

**Alsike or Swedish Clover** This is one of the hardest varieties known. It is perennial and does not winter kill. It will do better on moist land than any other variety of clover, and is suitable for either hay or pasture. When sown with other grasses it forms a thick undersowing and greatly increases the yield. (Per lb. 60c) (10 lbs. \$5.00) postpaid. Write for quantity price.

# Grain and Field Crops

## WHEAT

Sow 60 Pounds per acre.

**Defiance** One big drawback against growing wheat in California has been rust, but this has been largely overcome by planting the Defiance variety where cool, moist weather conditions prevail. This variety is practically rust-proof. Defiance is a late wheat and should be planted early and seeded thin. It is non-shattering and classed as a hard white wheat, and number one for milling. Write for prices.

**Sonora** This variety is recommended because of its large yield, earliness and drought resistance. It is susceptible to rust and inclined to shatter, but it has long been a standard variety in Southern California back from the coast. It is classed as a soft white wheat. Write for prices.

**Early Baart** Early Baart Wheat is the right variety for the interior valleys. Favorable reports have come from San Joaquin and Imperial indicating that this variety will yield 20 sacks per acre under dry conditions that would impair other crops. Write for prices.

## BARLEY

Sow 60 to 80 Pounds per Acre.

We aim always to have the best it is possible to procure. We cannot fix a price because of the fluctuations of the market. Bearded Barley and Beardless Barley. Write for prices.

### Barley as a Winter Pasture

Several other plants furnish good winter pasture, but none are so valuable as Barley. It affords grazing earlier, and more abundantly. It recovers more rapidly after being grazed down. It is more relished by stock and more wholesome. It stands up so that stock can eat it with less dirt or other objectionable matter, and it is never affected by rust.

Sown in September it affords good grazing until May, but if the stock are taken off in March, a good crop of grain can be harvested.

For this purpose sow 100 pounds per acre and irrigate if needed.

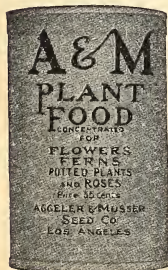
Barley sown in an alfalfa field during October will make good pasture during the winter when alfalfa is dormant, or it may be grown for hay without injury to the alfalfa.

## BUCKWHEAT

**Common** The soil is always moist where shaded with buckwheat. Sow the seed any time after April 1st, about 45 pounds per acre. Within ten weeks it will have matured. It will not survive the winter; therefore it is necessary to sow once a year.

We highly recommend the growing of Buckwheat for reclaiming desert land, as it will start a growth and produce a crop under more adverse conditions than any other crop we know of.

(Per lb. 25c) (10 lbs. \$2.00) postpaid. Quantity price on application.



## A & M PLANT FOOD

For Flowers, Ferns, Potted Plants and Roses

This concentrated plant food should be used by all who grow plants of any kind in pots, such as Ferns, hanging baskets, also for roses and in window boxes.

You have, no doubt, often noticed pale and sickly looking foliage on your plants. A & M Plant Food will restore the color and promote the growth.

It is packed in a convenient, sealed 2-pound package. Will not deteriorate after being opened and, very important, it can be kept in the house without discomfort. If covered, there will be no disagreeable odor. Per package, 35 cents. f. o. b. Los Angeles.

## OATS

Sow 70 to 100 Pounds per Acre

**Texas Red** (Rust Proof)—This is one of the few varieties profitable to plant here. We have this on hand during the planting season.

Texas Red Oats—Grown in Texas.

Texas Red Oats—Grown in California. Write for prices.

## RYE

Sow 60 Pounds per Acre.

Although Rye is sown largely for early winter pastures, green manuring and a limited acreage for the straw, it should be grown more largely for the grain, which is now in great demand. Write for prices.

## BROOM CORN

**Dwarf Evergreen** This is the standard because it is easily harvested and in quality there is none better. It is the best to plant throughout the Southwest. (Per lb. 25c) (10 lbs. \$2.50) postpaid. Write for quantity price.

## SUNFLOWER

Sunflower stalks are rich in potash, plow them under, do not waste them.

**Mammoth Russian** Should be planted largely for seed or silage. It makes a good wind-break around your garden. It is a valuable plant that grows anywhere with little attention. (Per lb. 25c) (10 lbs. \$2.00) postpaid. Write for quantity price.

## DWARF ESSEX RAPE

Pasture for Hogs, Sheep and Poultry

There is a need and a place for an extra quick growing green forage crop for use any time during fall, winter and spring, and our Dwarf Essex Rape fills that need exactly.

Rape can never become a pest as it belongs to the same general family as the turnip and rutabaga, and when planted under favorable conditions of soil and season, it makes an immense crop of green forage, juicy and succulent, and often at a time of year when little green feed is available.

(Per lb. 30c) (10 lbs. \$2.50) postpaid. Write for quantity price.

## MILLET

**Golden or German** Grows three to four feet tall, branches freely and is enormous. The heads are covered with small bristles. Where birds can be controlled this is probably the best variety to grow for seed. Where moisture is scarce this is a very good variety to grow for pasture. (Per lb. 25c) (10 lbs. \$2.00) postpaid.

**Russian, or Hog** If moisture is lacking and you need pasture in the shortest space of time, plant Russian or Hog Millet; it may be pastured within six weeks and matures seed within sixty days. It grows three to four feet tall. This seed may be harvested by heading and a second crop will mature within another thirty days. (Per lb. 25c) (10 lbs. \$2.00).

# FERTILIZERS

WRITE FOR QUANTITY PRICE

## FULTON'S Plantabbs

ODORLESS PLANT FOOD TABLETS

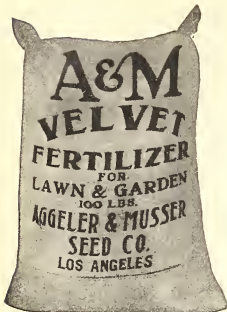
Plantabbs are ideal as a food and stimulant for potted and outdoor plants. They begin to feed plants at once and improvement is usually noticed in ten days or less. One Plantabbs placed in the vase will prolong the life of cut flowers. 30-Tablet pkt. 25c, 75-tablet pkt. 50c, 200-tablet pkt. \$1.00, 1,000-tablet pkt. \$3.50. Postage extra.



Fertilizers Continued on Next Page



# FERTILIZERS—Continued



## A & M VELVET FERTILIZER

**Quick and Lasting Results**  
 A & M Velvet Fertilizer is a scientifically prepared chemical compound carrying the necessary elements for the promotion of plant growth.

It not only enhances the beauty of the blossom and the color of the lawn, but it is a wonderful stimulant to vegetable life, and in addition to its many uses in the garden, it can be applied with wonderful results in the field for vegetables and other crops.

This fertilizer is easy to apply and it is in powder form and quickly available.

25 pound bag ..... \$1.15  
 50 pound bag ..... 2.10  
 100 pound bag ..... 4.00

F. O. B. Los Angeles.

## A & M HYDRATED LIME

The constant watering of lawns tends to sour the soil and eventually the lawn becomes foul with sorrel, Creeping Charlie, and other weeds which thrive in an acid soil.

This condition may be improved by applying A & M Hydrated Lime. 100 to 200 pounds applied to the average lawn on a 50 ft. lot will correct acidity and greatly improve the condition of the lawn. On very heavy soils it should be applied sparingly at first and should be applied more frequently. Heavy soils sometimes are slow to absorb the first application, but improvement may be noted when a second application is made.

The more foul the lawn is with those plants thriving on acid soil, the more lime should be applied, as it will tend to kill off the weeds and with the acid condition corrected in the soil the Blue Grass and Clover will begin to grow more luxuriously. A & M Hydrated Lime goes about twice as far as the ordinary air slacked lime. Price 80 lb. sack \$1.50; 4 lb. carton 25c. F. O. B. Los Angeles.

## SHEEP MANURE

With barnyard fertilizer becoming more and more scarce we offer, as perhaps the best substitute, our special brand sheep manure. It may be used for mulching lawns or as a fertilizer and the results are usually very satisfactory. For mulching the lawn it requires about one sack to 500 square feet. In comparison with barnyard fertilizer this may be slightly higher in price, but a saving will be made in the time spent pulling weeds for sheep manure carries very few weed seeds, if any. Per 80 lb. sack \$1.60, \$30.00 per ton, f. o. b. Los Angeles.

## PEAT HUMUS—RADIO BRAND

Peat Humus is the ideal substance for maintaining soil in first class condition, thus giving plant life every assistance for vigorous growth. It contains no weed seeds, conserves moisture, and keeps the soil porous and aerated. Peat Humus should be mixed well with soil before planting seed and it will prevent baking when used as a top dressing. Our supply is fresh from the peat beds and is not dried out. Per 80 lb. sack \$1.25; 5 sack lots \$1.20 per sack, f. o. b. Los Angeles.

## PEAT MOSS

Peat Moss is a valuable soil improver for all horticultural and agricultural purposes. It consists chiefly of decomposed vegetable or organic matter and increases the humus content of the soil. It absorbs ten times its weight in water, releasing it for the plants in periods of drought. Use Peat Moss liberally on flower and vegetable gardens and on lawns. Mulch roses, fruit trees, etc. to conserve moisture. Dahlias and other tubers may be safely stored in Peat Moss. A bale of Peat Moss when loosened will cover 700 square feet. Per bale \$4.50. F. O. B. Los Angeles.

## LEAF MOLD

We exercise the greatest care in the selection of our Leaf Mold. For home gardeners who are growing their own plants Leaf Mold will be a great assistance in growing them. It is used for and for using as a covering for the seed. A mixture of about one-fourth or one-third Leaf Mold with good loamy soil makes a very nice combination for the growing of young plants in flats. Where seeds are sown in the open a light covering of Leaf Mold on the row or the seed bed will assist in holding the moisture and secure a better germination. Per sack \$1.25; 5 sack lots \$1.10 per sack, f. o. b. Los Angeles.

## ADCO

ADCO is a powder which when mixed with any non-woody vegetable waste such as grass cuttings, straw, corn stalks, dry leaves and other garden refuse gradually converts the mass into real manure fully equal to the farmyard product in fertilizing, but free from unpleasant odor, flies, weed wills, etc. Any one can make ADCO Manure. The process is perfectly simple. Use 1 lb. of ADCO to every four cubic feet of debris. Write for circular giving full particulars. 25 lb. bag \$2.85, 100 lb. bag \$10.00, 150 lb. bag \$14.00. F. O. B. Los Angeles.

## AMMONIUM SULPHATE

Ammonium Sulphate is a natural by-product of Coke Ovens. It has been known as a high grade carrier of Nitrogen for years. Some idea as to the value of Ammonium Sulphate as a nitrogen carrier may be obtained by the fact that to equal 100% of Ammonium Sulphate in nitrogen content, it would take: 100 pounds Nitrate of Soda or 290 pounds Cotton Seed Meal or 1,650 pounds of ordinary fertilizer or 4,000 pounds of good stable manure.

For Garden use rake the soil 1 pound to every 150 square feet. One pound is sufficient for any 1 year old tree or 1 1/4 pounds for a 2 year old tree. For field crops apply 100 pounds per acre. (25 lbs. \$1.75) (50 lbs. \$2.75) (100 lbs. \$5.00) F. O. B. Los Angeles.

## GYPSUM

Gypsum brings about a mechanical change in the soil by making it more pervious to water and air. Very heavy adobe soils are much improved with an application of Gypsum which loosens it and this condition tends to prevent packing.

Gypsum is also used in the treatment of soil containing black alkali. The quantities to be used in the control of black alkali depending upon the amount of its presence in the soil. For the home garden one lb. to the sq. ft. on extremely heavy soil will provide a favorable condition for beneficial action of soil bacteria, will assist in the retention of moisture and make for a better circulation of air and water. Gypsum, however, will not correct acidity—that is it will not make sour soil sweet. Lime must be used for that purpose. Gypsum 100 lb. sack \$1.25, 5 sacks \$1.10 per sack, ton lots 95c per 100 lbs, f. o. b. Los Angeles.

## TORO BRAND SULPHUR

ESPECIALLY PREPARED FOR AGRICULTURAL PURPOSES

The application of sulphur to the soil to increase crop production is now a proven and accepted fact. In addition to its fertilizing qualities it is giving excellent results in the control of potato scab. It loosens and cements ill soil, is active in controlling fungus, produces a better quality of fruit and is generally beneficial to all crops.

Toro Brand Sulphur may be applied in irrigated districts at any time and in non-irrigated districts just before plowing, so that it will get the benefit of winter rains. It may be drilled in with a fertilizer drill or broadcast by hand and then plowed or cultivated in.

In orchards use four pounds to the tree, where trees are four years of age, and for older trees a little more may be used. For vines, grains, alfalfa, beans and all other surface crops use about two sacks per acre. Within six months trees or crops usually begin to show results which continue into the second, third and fourth years. Toro Sulphur is packed in 50 lbs. to the sack. One sack \$3.55, 10 sack lots \$3.45 per sack, 25 sack lots \$3.35 per sack, f.o.b. Los Angeles.

## Sulphur for Dusting—See page 82

## Nitrate of Soda

Contains about 15% nitrogen. Is very quick in action and entirely soluble. Is best applied after the plants are growing. Price fluctuates. Write for prices.

## Super-Phosphate

(25 lbs. 65c) (50 lbs. \$1.20) (100 lbs. \$2.25) F. O. B. Los Angeles. Write for quantity price.

## Fish Fertilizer

This fertilizer is composed of dried fish, finely ground, and is purely organic. An excellent fertilizer for all crops. Will last for several crops without the need of other fertilizer. Write for prices.

## Dried Blood Meal

Is very rich in nitrogen and an excellent plant-food for increasing the yield of vegetables and fruit, and also for stimulating the growth of flowers. There is from 12 to 13% nitrogen. Write for price.

## Bone Meal

3 1/2% nitrogen and 16% phosphoric acid. Neither of these two elements is immediate in their action. If put in the soil in the Fall, some results will show the following Spring. Slow but sure. Write for price.

## Fertilizers in Small Gardens

Amateur garden makers are often puzzled as to the amount of fertilizer needed for their small plots, because the usual directions give only the amount per acre. The following table shows (approximately) the proper proportions:

100 lbs. per acre equals 1 lb. for a plot 10x13 feet.  
 200 lbs. per acre equals 1 lb. for a plot 10x10 feet.  
 300 lbs. per acre equals 1 lb. for a plot 10x14 feet.  
 400 lbs. per acre equals 1 lb. for a plot 10x11 feet.  
 500 lbs. per acre equals 1 lb. for a plot 10x9 feet.

# ACME INSECTICIDES & FUNGICIDES

## Acme All Round Spray



This combination spray fills a long felt want in the vital combat against garden pests. The preparation includes Arsenate of Lead for chewing or leaf-eating insects, Bordeaux Mixture for blight and fungus diseases, and thirdly, Nicotine Sulphate 40% for aphids and other sucking insects. The Arsenate of Lead and Bordeaux Mixture are mixed in powder form and the Nicotine Sulphate is contained in a small bottle. The whole preparation is packed in a handsome lithographed tin and a complete set of instructions with spray chart is enclosed.

(4 lb. tin 45c) (1 lb. tin 95c) f. o. b. Los Angeles. Cannot be mailed.

## Acme Garden Guard



Garden Guard is a convenient, practical and economical all around garden insecticide, ready for use as but one in the package; in a sifter can, easily applied, and very effective in combating the majority of insect pests that prey upon your garden. Applied early in the morning or late in the evening when the dew is on, it will control many chewing insects. The Bordeaux Mixture contained therein serves as a fungicide and will assist in preventing Mildew and other fungus difficulties. Used extensively by market gardeners. (1 lb. package 35c) (5 lbs. package \$1.25) (100 lb. drum \$15.75) f.o.b. Los Angeles. Cannot be mailed.

## Acme Bordeaux Mixture



Bordeaux Mixture not only stimulates plant growth but controls fungus, such as Celery Blight, Apple Black Rot, Pear Scab, Mildew, Blight, and many other fungus ailments. It is probably one of the best preventatives (if it is one) of Tomato Blight and young tomato plants should be sprayed with Bordeaux Mixture from the time they show through the ground until they are ready for transplanting and at transplanting time dip the entire plant in Bordeaux Mixture, then spray until the plants are in bearing. Sometimes Bordeaux Mixture may prevent Blight by pouring it around the stem of the plant and allowing it to soak down to the root system. This is true not only of tomatoes but other plants as well. Young Sweet Peas should be sprayed and in fact any plant, tree or shrub in the garden would be benefited by spraying with Bordeaux Mixture. Mix 12 to 15 level tablespoons of Bordeaux Mixture Powder in one gallon of water, and for field spraying about 6 to 10 gallons of water for a 2-3-50 mixture. (1 lb. carton 45c) (4 lb. paper bag \$1.10) (8 lb. bag \$2.10) f. o. b. Los Angeles. Write for quantity prices. Cannot be mailed.

## Acme Dry Lime Sulphur



An invaluable spray for the control of fungus diseases such as peach leaf curl, mildew, peach twig borer, pear scab and many other ailments common to deciduous fruit trees. For the above spray with a mixture of 10 to 12

tablespoons of Dry Lime Sulphur to one gallon of water sometime during the month of December and again in the spring when the buds begin to swell.

Peach Leaf Curl is one of the very common fungus diseases and sap oozing from the branches is an indication of this fungus. One spraying will not control it. You must spray twice, as outlined above. Dry Lime Sulphur is also used as a control of Red Spider and it may be used effectively on roses during mid-winter or about anuary first. This for the prevention of Mildew in spraying Citrus trees: use about 3 tablespoons to one gallon of water.

(1 lb. cans 35c) (5 lb. cans \$1.45). Write for quantity prices. May be mailed.

## Acme Paris Green

For grasshopper and cutworm bait use Acme Paris Green as follows: one pound Paris Green, 10 lbs. bran, 1 quart brown molasses, 2 lemons chopped fine. Add water to make a crumbly mass and broadcast in the field for grasshoppers. For cutworms place the bait about the garden in the evening, in piles of about one teaspoonful at intervals of 10 to 15 feet or near the plants that are being destroyed by cutworms. (1 lb. carton 55c) (5 lb. carton \$2.40). Cannot be mailed.



## Acme London Purple



The economy of using Acme London Purple lies in its superior sticking quality in addition to being reasonable in price and quick in action. We recommend it for use on potatoes, cotton, and any other crop infested with chewing insects. Use it as a dust or as a spray (1 lb. carton 35c) (4 lb. paper bag 90c) f. o. b. Los Angeles. Write for quantity prices. Cannot be mailed.

## Acme Arsenate of Lead



For the control of codling moth, cabbage worms, caterpillars, beetles and all other leaf-eating or chewing insects. In mixing spray material use 3 to 4 heaping tablespoons of Arsenate of Lead to one gallon of water. For dusting mix one part Arsenate of Lead to 5 or 6 parts of hydrated Lime. This will be found effective for the Diabrotica Soror, which is the twelve spotted beetle that infests dahlias, etc., also dusted on the silk will prevent corn ear worm and it may be used as a dust for other leaf-eating insects. (1 lb. carton 45c) (4 lb. paper bag \$1.10) f. o. b. Write for quantity prices. Cannot be mailed.

## Acme Calcium Arsenate



Is especially valuable for use in dusting cabbage, potatoes and other crops for the control of many insects. It is extremely light and fluffy, having not less than 100 cubic inches to the pound, insuring even distribution when dusted and effective results when used as a liquid spray. (1 lb. carton 35c) (4 lb. carton 90c) f. o. b. Write for quantity prices. Cannot be mailed.

## Acme Spray Soap



A fish oil soap effective in destroying many sucking insects and lice on plants, trees, ferns, etc. It is also used in combination with Black Leaf 40 and Evergreen as a spreading and adhesive agent. (1 lb. 30c). (5 lbs. \$1.15) f. o. b. Los Angeles. Can be mailed.

## Acme Bait-M



Bait-M is a mixed preparation for the eradication of snails, cutworms, slugs, grasshoppers and snugs and is highly recommended. It should be broadcast over the ground in the evening. (1 lb. carton 30c) (3 lb. carton 60c) (15 lb. bag \$2.75) f. o. b. Los Angeles. Cannot be mailed.

## ACME SPRAYING GUIDE

When and What to Spray

Write for this Fine Guide Free

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_

ZIP \_\_\_\_\_



## INSECTICIDES and SPRAY MATERIALS—Continued

## DESTRUXOL



This is one of the finest sprays we know for use against such common garden pests as aphids, thrip, lice, red spider, leaf roller hoppers, mealy bugs and mildew. It contains Nicotine Sulphate, Cyanide, etc., the Cyanide giving off fumes which reach insect life on the underside of foliage. Destruxol may be used at all seasons with entire safety, although the warmer the weather, the greater is the fuming action. There is little chance of burning or checking growth and on roses or other hardy subjects, the effects may be used at double strength. Use 1 large teaspoonful of Destruxol to 1 gallon of water.

Cannot be mailed.

1 oz. makes	5 gals. spray	\$.40
2 oz. "	"	.65
4 oz. "	"	.90
1/2 pt. "	"	1.40
1 pt. "	"	2.00
1 qt. "	"	3.75

## Destruxol Emulsion

Destruxol Emulsion contains the constituents of Destruxol, combined with organic and vegetable oils in the form of a stable emulsion. It retains its insecticidal qualifications over an indefinite period without detrimental effects to tree life. Very effective in the control of scale on citrus trees, also red spider, mealy bug and aphids.

Cannot be mailed.

1 qt. makes	25 gals. spray	\$.95
1/2 gal. "	"	1.40
1 gal. "	"	1.80
5 gal. "	"	6.75

Write for descriptive circular.

## Tree Tanglefoot

A sticky substance that may be applied to the bark of trees to protect them from all climbing insects. One application is good for three or four months and it will prevent ants from entering tree tops. Also used for tree surgery. (1 lb. Can 60c) (5 lbs. \$2.75) (\$10 lbs. \$5.25) f.o.b. Los Angeles. May be mailed.

## Black Leaf 40



A 40 per cent Nicotine solution for the control of plant lice or aphids on roses and other garden plants. Must be applied in vapor form with a spray pump. Black Leaf 40 will kill all aphids or plant lice that are covered with the spray material but a new supply of aphids may be carried to your plants the following day by the Argentine Ant. To control aphids it is necessary also to control Argentine Ant. A one-ounce bottle of Black Leaf 40 will make 8 gallons of spray. Full directions on the package. (1 oz. bottle 35c) (1/2 lb. tin \$1.25) (2 lb. tin \$3.25) (10 lb. tin \$11.85.) Sent by express or freight only.

## Diamond "S" Sulphur

This sulphur is used mostly for preparing a lime sulphur solution, for which purpose it is very satisfactory. There is also a considerable quantity of it sold for the purpose of mixing with chicken feed. We do not recommend Diamond "S" brand of sulphur for sulphuring plants to prevent mildew or other fungus. Anchor Brand Sulphur should be used entirely for that purpose. Diamond "S" Brand Sulphur is packed 100 lbs. to the sack and the price is \$3.50 per sack, f. o. b. Los Angeles.



## Dusting Sulphur



Mildew is more easily prevented than cured and there is no better preventative than Anchor Brand Sulphur, the highest grade sulphur manufactured.

The fine snowflake like particles of the Anchor Brand are condensed in a vapor and are not ground. This is what gives Anchor Brand Sulphur the feathery and spiderweb clinging and strong fuming qualities that are so well known. This sulphur is also very fine for the control of Red Spider and when dusted on the ground beneath the plants it combines with the oxygen in the air and creates a gaseous compound. This gas or vapor rises, passes through the foliage of the plant and destroys fungus spores. Sunlight, moisture and high temperature are contributing factors in the creating of these fumes. Price, 1 lb. 10c, 3 lbs. 25c; 100 lb. sack \$4.95, postage or freight extra.

## Blue Stone

(Sulphate of Copper)

Used to prevent smut on barley and wheat. The seed to be planted should be soaked in a solution of 1 lb. Blue Stone to 6 gallons of water. Soak the seeds for ten or fifteen minutes then spread it to dry. Blue Stone is also used in the water for the control of some fungus diseases (per lb. 15c) (10 lbs. \$1.40) f.o.b. Los Angeles. Small quantities may be sent by mail. Ask for prices on barrel lots and larger quantities.

## Pruning Compound

For covering fresh cuts or bruises on trees and is particularly valuable for figs, walnuts, etc. Will aid nature in healing wounds without retarding the growth of the tree. (1 Qt. Can 75c) (1 Gal. Can \$2.25) f.o.b. Los Angeles. May be sent by mail.



## A Non-Poisonous Spray That Can Be Mailed



EVERGREEN is recommended for use against both sucking and chewing insects such as plant lice, cabbage worms, cut worms, thrip, cucumber beetle, rose chaffer, red spider, mealy bugs, etc. It is harmless to humans, animals and birds and kills only insects. It may be used freely on tender plants and flowers—it cannot burn or otherwise injure them. Being liquid it is easy to mix and it does not clog sprayers. A small amount of non-caustic soap should be incorporated as a spreader or adhesive agent.

1 1/2 oz. makes	9 gals. spray	\$.35
6 oz. "	"	1.00
16 oz. "	"	2.00
32 oz. "	"	3.50
1 gal. "	"	13.00

Prices f.o.b. Los Angeles.

## Nico Dust



NICO DUST is a dry powder insecticide killing by fumes as well as by contact. The principal ingredients are Nicotine Sulphate—the well known remedy for sucking insects. Nico dust should be applied as a dust directly to the plant with a hand or power duster, and the best results are obtained when the air is still and the temperature fairly warm. In addition to Nico Dust in several strengths we have the Nico Garden Dust for general use in the garden, controlling slugs, aphids and many other pests.

## Nico Garden Dust

(12 oz. pkg. 40c) (5 lb. pkg. \$2.00). Cannot be mailed.

## Nico Dust No. 5

5% Black Leaf 40 (1 lb. pkg. 35c) (5 lb. pkg. \$1.35) (25 lb. steel drum \$4.50) (50 lb. steel drum \$8.00) (100 lb. steel drum \$14.50). Cannot be mailed.

## Nico Dust No. 6

6% Black Leaf 40 (1 lb. pkg. 40c) (5 lb. pkg. \$1.45) (25 lb. steel drum \$4.75) (50 lb. steel drum \$8.50) (100 lb. steel drum \$15.70). Cannot be mailed.

## Nico Dust No. 8

8% Black Leaf 40 (1 lb. pkg. 45c) (5 lb. pkg. \$1.60) (25 lb. steel drum \$5.65) (50 lb. steel drum \$10.35) (100 lb. steel drum \$19.50). Cannot be mailed.

## Nico Dust No. 10

10% Black Leaf 40 (1 lb. pkg. 50c) (5 lb. pkg. \$1.95) (25 lb. steel drum \$6.25) (50 lb. steel drum \$12.00) (100 lb. steel drum \$22.50). Cannot be mailed.

ALL prices are f.o.b. Los Angeles. Send for Nico Dust Insecticide Chart.

## A &amp; M Green Bar Soap

The efficiency of any spray insecticide is greatly increased by the use of a spreader. Unless a spreader is used the spray will collect on the plants in tiny globules and many parts will be left dry. A & M Green Bar soap is specially prepared and increases the efficiency of Evergreen, Black Leaf 40, etc. (See directions on wrapper). Price 15c per bar.

## INSECTICIDES and SPRAY MATERIALS—Continued



# Snarol

The National Pest Control

## Kills Garden Pests

Stops Their Damage

Science Provides  
New Safe Method  
That Does the Work  
Without Fuss

Snails, Cutworms, Slugs, Grasshoppers, Sowbugs,  
Earwigs, Etc., Are Exterminated



Snarol is a ready prepared meal that you simply broadcast on the ground, under the vegetation. The pests eat the meal and are quickly destroyed.

Snarol will not deteriorate from rain or sprinkling and also is non-injurious to vegetation when used according to simple directions. These features distinguish it from ordinary controls and make Snarol popular with professional gardeners and nursery men. Prices—1-lb. package 35c, 3-lb. package 75c, 15-lb. package \$2.95, 50-lb. bags \$8.50. Cannot be mailed.



# Antrol

Ants  
Destroyed

## The National Ant Control

New Method "Gets" Them at Their Source—Safe, Permanent, Effective

The Antrol system is adapted to any size house or garden and quickly destroys all species of sweet eating ants. It is composed of small glass containers and a special formula of syrup. The containers are partially filled with syrup and placed about the outside edges of the house or along "ant" trails in the garden if the infestation occurs there. The ants smell the syrup, eat it and then transmit its mild poison to the queen in the nest. Soon the entire ant colony is destroyed.

The complete system should cover every 15 feet around the outside of the house or "ant" trails in the garden. Once installed permanent effective and safe protection is insured from these annoying pests. Prices—Antrol sets containing 4 containers and 1 4-oz. bottle of syrup, 95c; Antrol extra containers (each), 15c; Antrol syrup, 4-oz. bottle, 35c; pints, 75c; quarts, \$1.25; gallons, \$3.00; 5 gallons, \$13.75. Cannot be mailed.



## Schrader's Ant Powder



A safe, easy and effective way of destroying ants by sprinkling powder on their trails and around the nests. State whether powder is needed for the Argentine Ant or Red Ant.

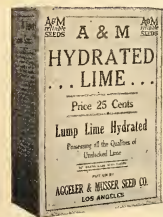


Packed in sifter cans—(2 oz. 25c) (4 oz. 50c) (12 oz. \$1.00). Postage extra.

## Squirrel Poison—Moore's

(Grain). A certain and specific destruction of gophers, squirrels, crows and mice. (Small size 50c) (Medium size \$1.00) (Gallon size \$1.90) (5 Gallon drums \$5.50). Cannot be mailed.

## A & M Hydrated Lime



An occasional application of Hydrated Lime on the lawn will correct acidity in the soil. Acid soils are usually caused by constant sprinkling and very often in shaded places of the lawn will be found a surface growth of green moss. A & M Hydrated Lime will correct acidity in the soil. Acid soils are usually caused by constant sprinkling and very often in shaded places of the lawn will be found a surface growth of green moss. A & M Hydrated Lime will correct acidity in the soil. Acid soils are usually caused by constant sprinkling and very often in shaded places of the lawn will be found a surface growth of green moss.

A & M Hydrated Lime is this by simply being applied on the surface and sprinkled. It loosens up heavy soils and prevents packing, baking and cracking, thereby making cultivation easier. It promotes the normal decay of organic matter in the soil. It requires about one-half as much Hydrated Lime as any other form of lime to produce the same results. \$1.50 per 80-lb. sack, f.o.b. Los Angeles; 4-lb. cartons 25c, by mail 35c.

## Cyanogas

For Wireworm, Red Ants, etc.



For the control of Wireworm plant a bait crop of beans, corn or peas, before the garden is planted, covering the bait crop to a depth of about 3 inches in rows about 36 inches apart. Within one week the Wireworms will be attracted to the bait crop and at this time apply Cyanogas by means of a garden seeder or by similar method, directly into the bait rows and about one inch below where the bait was planted. In the small garden, where no seeder is available, open a narrow trench deeper than the bait level, close to and on each side of the bait row and apply Cyanogas at the rate of one pound to each 100 feet of row. Cover immediately with the earth dug from the trench and leave it for three to four days, after which time seeds or plants may be planted without injury to them. Remember that Cyanogas is injurious to growing plants and it must not be used except when there are no plants growing.

For field operations, where the bait rows are about 3 feet apart, it requires about 90 pounds of Cyanide per acre. For further information ask for bulletin on Wireworm Control. 1/2 lb. package 50c, 1 lb. package 75c, 5 lb. package \$2.50, f. o. b. Los Angeles. Cannot be mailed.

**CYANO GAS A-DUST**—For the control of large red ants, gophers, etc. 1/2 lb. package 50c, 1 lb. package 75c, 5 lb. package \$2.50. Cannot be mailed.

## Carbon Bi-Sulphide

For the control of weevil in grain, place the grain in an air-tight chamber and for every 100 cubic feet of space use 1/2 Pint Carbon Bi-Sulphide. Saturate it into an absorbent so that it will evaporate quickly, close the chamber tightly and leave for three or four hours. May be used also for the control of the large red ant. Is used to some extent for wire worm infested soil but must be applied when there is nothing growing in the soil. (Pt. bottle 40c) (Qt. 60c) (Gal. \$2.25) (5 Gal. \$8.50) f.o.b. Los Angeles. Sent by express or freight only.

## SEMESAN



A seed, plant and soil disinfectant. It will successfully prevent or control diseases of seeds without in the least impairing their vitality, but on the other hand generally increases germination, invigorates seedling growth, and develops sturdier plants. Semesan will also prevent the "Brown Patch" of lawns, the "Damping-off" of seedlings and cuttings, and certain soil-borne diseases. Treatments can be made in dust or liquid form. (2 oz. tin 50c) (1 lb. tin \$1.75) (5 lb. tin \$13.00) f.o.b. Los Angeles. Cannot be mailed.

or control the "Brown Patch" of lawns, the "Damping-off" of seedlings and cuttings, and certain soil-borne diseases. Treatments can be made in dust or liquid form. (2 oz. tin 50c) (1 lb. tin \$1.75) (5 lb. tin \$13.00) f.o.b. Los Angeles. Cannot be mailed.

## Semesan Jr.

A less expensive but equally effective form of Semesan for dry dust disinfection of seed corn only. Controls diseases and at the same time increases yields from 10 to 40%. (4 oz. can 50c) (1 lb. tin \$1.75) (5 lb. tin \$8.00). F. O. B. Los Angeles. Cannot be mailed.

## Semesan Bel

Applied to whole or cut seed potatoes either as a dry powder or in liquid form, Semesan Bel will prevent or control the common seedborne potato diseases. Also very effective in treatment of Gladioli and other bulbs, and produces healthier plants. (4 oz. tins 50c) (1 lb. tin \$1.75) (5 lb. tin \$8.00) f. o. b. Los Angeles. Cannot be mailed.

## Ceresan

A dust disinfectant for wheat and other cereals. Particularly recommended for stinking smut. (8 oz. tin 50c) (1 lb. tin 75c) (5 lb. tin \$3.00). Cannot be mailed.

Free Descriptive Booklets Sent Upon Request

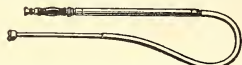
## Tobacco Stems

Used extensively by nurserymen and florists for fumigating green houses. Poultrymen also use it in chicken nests. Small quantities by express 20c per lb., f.o.b. Los Angeles. (100 lbs. by freight \$6.00 per 100, f.o.b. Los Angeles.) Prices subject to change.



# SPRAY PUMPS

## A & M TROMBONE SPRAYER



Equipped with nozzle for fine spray or straight stream. May be used for garden spraying, white-washing and disinfecting. With the smallest effort a powerful volume of spray is produced, capable of reaching the tops of average trees. It is made entirely of brass. Pump as shown above, with short hose, strainers and three spraying nozzles. Shipping weight 6 pounds.

Each \$5.00 f. o. b. Los Angeles.

## BROWN'S AUTO SPRAY NO. 50

### Light Weight—Specially Recommended

This sturdy machine is almost identical to Auto-Spray No. 9 in construction and manipulation, but with smaller capacity, holding about 2½ gallons. Height 13 inches, diameter 7 inches. It is entirely suitable for spraying on a smaller scale. It is particularly recommended for use where weight is a factor, as when the women folks or youngsters help out with the spraying. Furnished with angle nozzle.



Construction and uses same as No. 9. Equipment same as No. 9, except 18 inch extension in place of 2 feet. Solid seamless brass pump and check valve. Weight empty 6 lbs., loaded 23 lbs., shipping weight 7 lbs.

No. 50-B Brass Tank with Auto-Pop ..... \$7.75  
 No. 50-D Galv. Tank with Auto-Pop ..... 5.75  
 (F.O.B. Los Angeles)

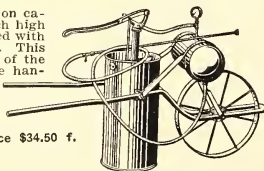
## HUDSON JUNIOR SPRAYER

Similar to above. Galv. tank of 2½ gallon capacity; all working parts brass. Complete with hose and 1 foot brass extension rod. Shipping weight 8 lbs. Price \$5.75 f.o.b. Los Angeles.

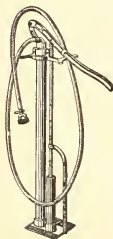
## BROWN'S AUTO-SPRAY No. 9

## BROWN'S AUTO SPRAY No. 3-G

Galvanized tank, 15 gallon capacity with 8 ft. of ¾ inch high pressure hose, and equipped with 200 lb. pressure air tank. This sprayer with the addition of the air tank, enables it to be handled by one person. After filling the air tank by pumping, a fine spray is produced which lasts for several minutes. Shipping weight 150 lbs. Price \$34.50 f. o. b. Los Angeles.



## BARREL PUMPS Brown's Auto-Spray No. 4



For the average small farmer or truck gardener, a pump of this size is very satisfactory. Because of its special design this pump is light in weight and consequently it is comparatively inexpensive. However, it is durable and sturdy in construction. The long air chamber stores up reserve pressure so that the nozzle throws a long continuous spray. Agitator is automatic and functions as long as pump is being operated. Pump cylinder is 1½" in diameter. Equipped with 15 feet of ¾" hose and auto-spray nozzle. Shipping weight 25 lbs. Price (without barrel) \$15.50 f. o. b. Los Angeles.

## UTILITY NO. 90-A

With this barrel pump a pressure of 175 lbs. can be maintained without exertion. Brass cylinder is 1½" in diameter. Equipped with 10 feet of ¾" hose and angle nozzle. Shipping weight 37 lbs. Price (without barrel) \$17.00 f. o. b. Los Angeles.

## SPRAY HOSE

Heavy, high pressure hose for power pumps:  
 ¾ inch ..... 25c per foot    ½ inch ..... 30c per foot  
 Five-ply hose for use on small spray pumps:  
 ¾ inch ..... 17c per foot    ½ inch ..... 21c per foot  
 3-ft. Brass Extension Rods ..... \$1.00 ea.  
 (F.O.B. Los Angeles)

Sturdy compressed air sprayer, equipped with a heavy brass screw can to lock pump in reservoir. The metal in the tank is lock-seamed, well riveted, soldered inside and out. May be obtained with brass or galvanized tank. Brass tank is strongly recommended as it will not rust and will withstand strong solutions. Capacity 4 gals., height 2 feet, diameter 12 inches. For spraying field crops, shrubs, vines, poultry houses; for removing wall paper, disinfecting, white-washing, creosoting shingles, applying floor oils and for general purposes. Two-foot extension with each machine, no extra price. New solid seamless brass pump and brass ball check valve. Furnished with angle nozzle. Weight empty 9 lbs. Packed for shipment 10 lbs.

No. 9-B Brass Tank with Auto-Pop ..... \$10.00  
 No. 9-D Galv. Tank with Auto-Pop ..... 7.00  
 (F.O.B. Los Angeles)



## HUDSON PERFECTION COMPRESSED AIR SPRAYER

Similar to above. Galvanized or brass tank of 4 gallon capacity; all working parts brass. Equipped with brass extension rod. Shipping weight 12 lbs.

Galvanized Tank ..... \$ 7.00  
 Brass Tank ..... 10.00  
 (F.O.B. Los Angeles)

## BROWN'S AUTO-SPRAY No. 26

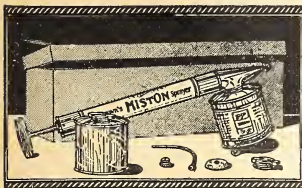
A continuous atomizer of unusual merit. The container can be detached for refilling and cleaning by simply unscrewing from the pump cylinder. The syphon tube is easily removed and quickly cleaned by removing the nozzle.

Uses—For spraying garden crops, for use in greenhouses, for handling disinfectants and fly oils. It can be used with all spraying solutions.  
 No. 26-A, tin pump, 1 qt. glass tank ..... \$1.25 Postage 10c  
 No. 26-B, tin pump, 1 qt. brass tank ..... 1.25 Postage 10c  
 No. 26-C, all brass, 1 qt. .... 1.50 Postage 10c



## Sprayers -- Continued

### THE MISTON CONTINUOUS SPRAYER



Highly perfected design of continuous sprayer. It has a variable nozzle that makes Mist-On an all purpose sprayer. A slight turn to right or left gives a nozzle adjustment that permits every density of spray from delicate vapor mist to a solid stream. Mist-On is sold singly as a complete sprayer,

or as an outfit consisting of one extra tank (for changing to another solution or color of lacquer) and many other extra parts.

Single Sprayer A, tin	\$1.50 each
Single Sprayer C, brass	2.00 each
Mist-On Outfit 1A, tin	2.75 each
Mist-On Outfit 1C, brass	3.50 each

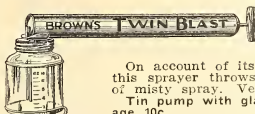
(Prices F.O.B. Los Angeles)

### A & M SUPERIOR MISTY SPRAYER



All tin. Holds 1 quart. Price .....50c By Mail 60c  
Midget size. Holds 1 pint. Price .....40c By Mail 50c

### BROWN'S TWIN BLAST SPRAYER

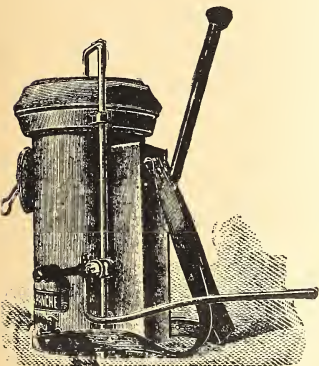


On account of its having two syphon tubes this sprayer throws an unusually large blast of misty spray. Very effective.

Tin pump with glass tank, 1 qt., 75c. Postage 10c.

## Dusters For Garden and Field

### THE VERMOREL "TORPILLE" SULPHURING MACHINE



Without any doubt the Vermorel Sulphur Duster does the work perfectly. It has a carrying capacity of 15 pounds. It distributes the weight on the shoulders and back, leaving the hands of the man operating the machine free to work the pump and open up the vines.

The sulphur, violently projected by a powerful bellows, sends out of the paddle-shaped nozzle, which can be directed at will, dust as fine as mist, thus producing highest efficiency with least sulphur. No. 1, \$16.00. No. 2, double action \$19.00. f. o. b. Los Angeles.

### DUSTER BROWN No. 1



Duster Brown No. 1 is adapted for use with sulphur and all insect powders. Because of its size and efficiency it is a favorite with the housewife in applying roach, ant and various bug powders. Also very practical for dusting rose bushes, etc., in small gardens. This little gun makes dusting a pleasure. Price 50c. By mail 60c.

### DUSTER BROWN No. 2



A very practical duster of new design. It is especially adapted for use in applying insect powders. It is simply constructed and works on a new principle recently discovered. The extension is of sufficient length to enable the operator to spray ordinary crops without bending over. Very useful for dusting rose bushes, and garden plots generally.

Duster Brown No. 2-C, quart.....\$1.10, postage 10c

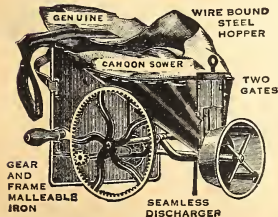
### Use Sulphur

"I have used 3 bags of your Toro Sulphur around my fruit and citrus trees and have found great improvement."  
"Have also used 2 bags Anchor Brand Dusting Sulphur and my grapes are doing wonderful and are more full than ever and no sign of mildew this year."

"CHAS. WM. HOPF."

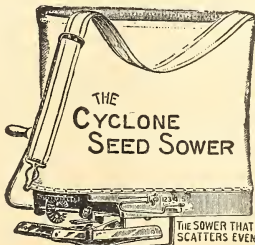
## Seeders

### Cahoon Seeder



The Standard Sower acknowledged to be superior to all other hand sowers. Gives perfect satisfaction, and can be used for sowing alfalfa and grains broadcast. Sows from four to eight acres per hour at a common walking gait. A saving of four-fifths of the labor and one-third of the seed by its use. A person entirely unaccustomed to sowing by hand can use this machine with perfect success. Price \$6.00 f. o. b. here. Weight crated 8 lbs. Can be sent by mail.

### Cyclone Seed Sower

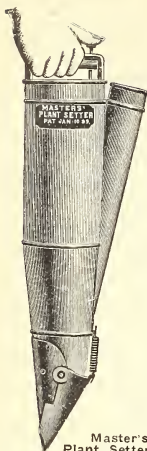


This Seeder is equipped with the following important features: Sloping feed board, automatic feed adjustment, distributing wheel, triple gears. Weight, 5 lbs. Price \$2.50, f. o. b. Los Angeles.

### Planet Jr. Seeders & Cultivators

We have a full line of these in stock. Write for descriptive catalog.

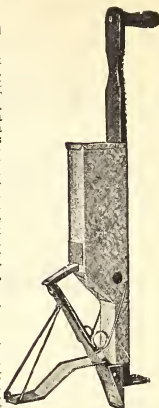


SEGMENT CORN  
PLANTER

The lightest, most accurate, strongest, cheapest and most up-to-date Planter on the market. Never cracks a kernel nor skips a hill. It is always in position, never makes a wrong move. Many gardeners are using this for their re-planting, and melon growers are using it to plant watermelons and cantaloupes. (See picture). Price—\$2.50 f. o. b. here. Weight, 5 lbs.

MASTER PLANT  
SETTER

The only hand mechanical plant setter on the market. No stooping when using it, therefore no lame backs. All kinds of plants—Cabbage, Tobacco, Tomatoes, Cauliflower, Strawberries, Sweet Potatoes, etc., are set in water and covered at one operation. Weight 10 lbs. Price—Each \$6.00 f. o. b. Ask for circular.

Segment Corn  
Planter.

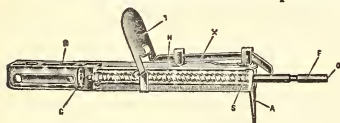
## TRAPS

## Chubbuck Double Catch Gopher Trap

OLD GOPHER  
CAUGHT BY  
OUTSIDE SPRING

The double spring system of this trap is very effective in catching both large and small gophers. Price 60c, postpaid.

## The Never-Fail Gopher Gun



attempt to close hole, setting off the gun. The concussion kills them every time. For moles dig down to main run and set same way. Each \$2.10 postpaid.

Load the gun with a 38 S & W Blank cartridge as sold by all dealers and set in gopher tunnel. Within a few moments the gopher will

## Macabee Gopher Trap

This is the most convenient gopher trap yet manufactured. It is easy to set, small and can be extended far down into the hole. Price postpaid, 30c.

## Box Gopher Trap

This trap is used extensively by gardeners. Is easy to set and sure. Price by mail 40c.

## Easy Set Mole Trap

Catches them going and coming. A child can set it with perfect safety. Price \$1.25 f. o. b. here.

## Rat Scent

A specially prepared poisoned grain. The scent attracts rats and mice to the bait and the grain itself is agreeable to their taste. Place it in small piles around holes and places they frequent. It is very effective. (Small pkg. 35c) (Medium size 50c) (5 lb. tin \$2.00) (15 lb. drum \$6.00) (100 lb. tin \$25.00). Cannot be mailed.



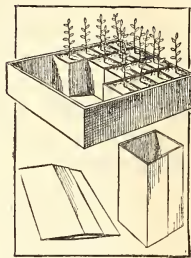
## Gopher Scent

The scent attracts the gopher and draws him to the bait. We have had some wonderful reports on Gopher Scent and feel that we cannot recommend it too highly. (Small pkt. 35c) (medium size 50c) (5 lb. tin \$2.00) (15 lb. pkg. \$6.00) (100 lb. tin \$25.00) f. o. b. Los Angeles. Cannot be mailed.

## Gopher-Gas Balls

Are used by lighting and rolling in same as the Gopher Candle. (Per doz. 60c) (Box of 125, \$3.75.) postpaid. Can be sent by mail.

## Cyanogas for Gophers—See page 83

The Expan Planting  
Pot

Made of heavy tar paper. Open top and bottom. For propagating plants, trees and shrubs—no waste space—no breakage. For the nurseryman, florist and market gardener. You can grow melons, squash, cantaloupes, cucumbers, etc., three weeks earlier in these pots than out in the open. When setting the plants in the field plant the pot and all, leaving about one inch above the top of the soil; this

protects the tender plant from cut worms, wire worms, moles and field mice.

Size	Price per 1000	Price per 100	Wt. per 1000
3x4	6.25	1.35	44 lbs.
2x3	8.00	1.45	53 lbs.
2x6	6.25	1.35	44 lbs.
2x4	4.00	1.00	29 lbs.
2x3	3.75	.75	22 lbs.
1½x5	4.60	1.00	23 lbs.
1½x4	3.75	.75	22 lbs.

All prices f.o.b. Los Angeles

## Yucca Tree Protectors

Protect the young trees from rabbits, squirrels, etc.

	Weight	Price	Price
	per	per	per
	1000	100	1000
12 in.	75	\$2.00	\$11.00
14 in.	90	2.25	12.00
18 in.	125	2.50	15.00
24 in.	150	2.75	17.50
30 in.	200	3.00	22.50

F. O. B. Los Angeles

## Spagnum Moss

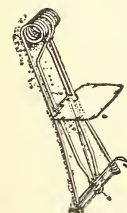
For packing. Per bale \$2.50 F. O. B. Los Angeles. Write for prices in quantity.

## Green Moss

For lining hanging baskets. Per lb. 30c postpaid.

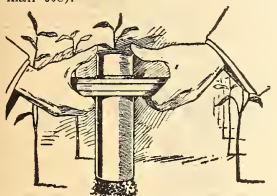
## Raffia

Natural raffia for tying vegetables. Pound 45c postpaid. Write for prices on larger quantities.

Macabee Gopher  
TrapEasy Set  
Mole Trap

## Transplanter

A Transplanter that does the work without disturbing the roots. It first makes the hole where you wish the plant, then picks up the plant root and all, without disturbing it, and sets the plant into its new location without checking its growth. A child can operate it. Just the thing for Eucalyptus growers and nurserymen. (50c) (by mail 60c).



*Taken out of here - to be set in here*  
Transplanter

## Pennsylvania Fruit Picker

Steel wire—strongly made, without handle. Each 85c. By mail 95c.

## Garden Trowel

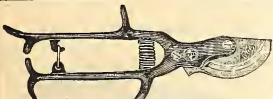


All Steel. 35c Postpaid.

## Transplanting Trowel



All Steel. 25c Postpaid.



### No. 1091 S

Cheap shears for light pruning. Malleable iron handle and coil spring. 60c postpaid.

### No. 4155 F

Reiser Pattern Pruning Shears

Made of the very best steel, all polished. These shears are used by orchardists and landscapers for heavy pruning. \$3.75 postpaid.



### No. 2092 V Pruning Shears

California Pattern, black malleable iron handle, volute spring. \$1.00 postpaid.

No. 2192 V—Same as above except that handle is polished steel. \$1.50 postpaid.

## Simplex Weatherproof Garden Labels



The card holder is made of special rust proof iron, welded to an iron stake 24 inches long. The card is white celluloid protected by a transparent mica cover. Each 25c postpaid. 10 for \$2.25 postpaid.

## Grafting Wax

1/4 lb. can—Repellent to Bees.....	25
1/2 lb. can—Repellent to Bees.....	40
1 lb. can—Repellent to Bees.....	75
5 lb. can—Repellent to Bees.....	2.65

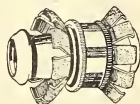
Postpaid

## Weather Proof Pencils

To be used for writing labels on garden plants. Every dahlia grower should have one of these. Will not fade in sun or rain. 15c each, 3 for 35c postpaid.

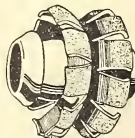
## Garden Hose

1/2 inch, 25 foot lengths.....	\$3.25
1/2 inch, 50 foot lengths.....	6.25
3/4 inch, 25 foot lengths.....	4.00
3/4 inch, 50 foot lengths.....	7.55



## Hose Couplings

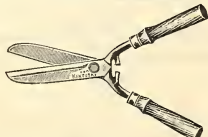
Self fastening.  
Per pair 35c  
postpaid.



## Hose Menders

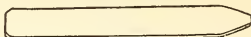
Mend in a  
minute. 15c ea.  
postpaid.

## Hedge Shears



No. 809-S—9-inch Serrated. Finest  
quality steel. \$2.75 postpaid.

## Pot Labels



### PAINTED

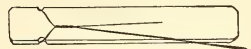
	Price Per 100	Price Per 1000
4 in.....	\$ .30	\$ 2.50
5 in.....	.35	3.00
6 in.....	.40	3.50
8 in.....	1.00	8.75
10 in.....	1.49	12.50
12 in.....	1.65	15.00

### PLAIN

	Price Per 100	Price Per 1000
4 in.....	\$ .25	\$ 2.00
5 in.....	.30	2.50
6 in.....	.35	3.00
8 in.....	.90	8.00
10 in.....	1.25	11.25
12 in.....	1.50	13.50

Prices F. O. B. Los Angeles

## Tree Labels



### PAINTED

	Price per 100	Price per 1000
3 1/2 in. Copper Wired.....	.40	\$3.50
3 1/2 in. Iron Wired.....	.35	3.00

### PLAIN

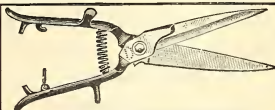
3 1/2 in. Copper Wired.....	.35	\$3.00
3 1/2 in. Iron Wired.....	.30	2.50

Prices F. O. B. Los Angeles

## Simplex Weatherproof Plant Labels



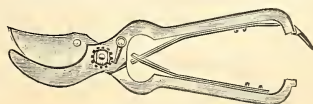
These labels are made of white celluloid and protected by transparent mica covers. They are impervious to the elements and will last indefinitely. Copper wires are included. Size 3x1/2 inches. 40c per dozen, \$3.00 per 100, postpaid.



### No. H9 Grass Shears

The most convenient shears on the market. Semi-polished blades. Each 90c postpaid.

No. 90—Same as above except blades tempered hardened, and highly polished. Each \$1.50 postpaid.



### No. 4192 F

California Pattern, all polished steel, and double polished brass inter-locking spring. Adjustable ratchet lock nut. \$2.00 postpaid.



### Lawn Roller

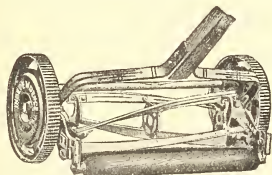


Water  
Ballast  
Convenient  
to Move

No. 2—16 inches high; 24 inches wide. Weight filled 148 lbs. Price \$16.00.  
 No. 4—18 inches high; 24 inches wide. Weight filled 275 lbs. Price \$18.00.  
 No. 7—24 inches high; 24 inches wide. Weight filled 418 lbs. Price \$26.25.

All f.o.b. Los Angeles

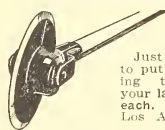
### Lawn Mowers



Pennsylvania Radio—Ball bearing; 8-inch wheel; four blades:  
 14 inch.....\$12.50  
 16 inch.....13.50

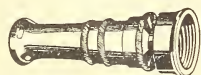
f.o.b. Los Angeles

### Lawn Edger



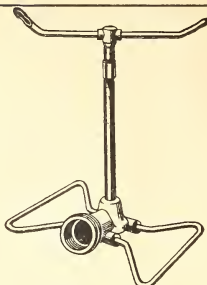
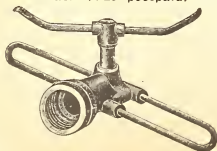
Just the thing to put the finishing touches to your lawn. \$1.25 each. F. O. B. Los Angeles.

### Fog Nozzle



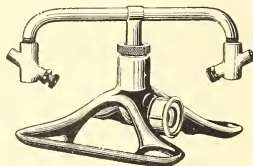
For fine spray or straight stream. 75c postpaid.

No. 130—Revolving Sprinkler. Each \$1.25 postpaid.



No. 131—Will cover a circle 40 ft. in diameter. Each \$1.75 postpaid.

### Whirling Showers Lawn Sprinkler

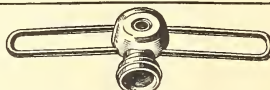
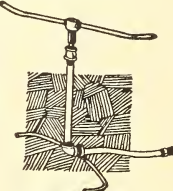


A variable and adjustable revolving lawn sprinkler so made that a mist or heavy spray may be obtained. Covers a circle of over 70 feet in diameter. All working parts are made of brass. Each \$2.75 postpaid.

### SUNSHINE SPRINKLER

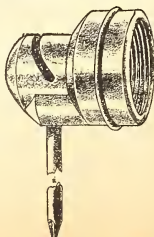
No. 3—For field and large garden use. Covers a circle of about 60 ft. under 50 lbs. water pressure. Each \$6.00.

No. 33—Includes center spray. Each \$7.00. F.O.B. Los Angeles.



No. 120—Will not turn over when being moved. Each 50c postpaid.

Parking  
Sprinkler  
No. 165  
With Long  
Spike  
Each 30c  
Postpaid.



No. 75  
With  
Fountain  
Jet  
Each 50c  
Postpaid.

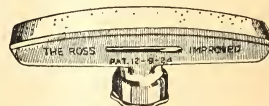


### Twin Sprinkler



No. 70  
Each  
35c  
Postpaid.

### Ross Sprinkler



For lawns and fine sprinkling. 80c postpaid.

### Rubber Plant Sprinkler



For spraying seeds in flats and house plants. Small size 90c. Large size \$1.50 postpaid.

### E. Z. Bermuda Rake

*The E. Z. Devil Grass Rake  
& Lawn Cultivator*



In preparing to reseed the Bermuda Grass lawn in the Fall, the E. Z. Bermuda Rake will do very effective work. The sharp knives cut the grass and lift it. After the Bermuda has been removed reseed with A & M VELVET LAWN GRASS and covered with a light mulch of sheep manure. E. Z. 13 tooth rake, \$1.85. E. Z. 9 tooth rake (suitable for ladies) \$1.25 f. o. b. Los Angeles. Sent by Express.



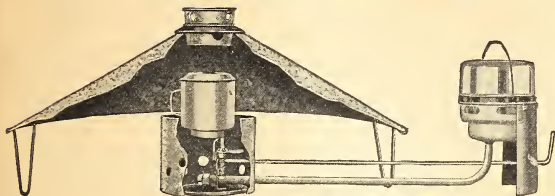
### Original Havill Lawn Weeder

One of the handiest tools for weeding the lawn. Each 50c postpaid.

# IMPROVED RELIABLE BROODER

## RAISE YOUR CHICKS THE SCIENTIFIC WAY

### Standard Blue Flame, Wickless, Oil Heated Colony Brooder



You can operate this brooder to full capacity or just as low as desired with equal success. It burns with a clear blue flame minus fumes or odor. A great advantage with the heater is that there is no packing or stuffing box arrangement to get loose or leak. Only the best grade long fiber asbestos is used in the lighting. They burn less oil than a metal vaporizer.

No. 2, 1,000-chick capacity, shipping weight 45 lbs., price \$20.00 f.o.b. Los Angeles. No. 2 Canopy only, \$9.00. Heater only, \$13.00 f.o.b. Los Angeles.

IN USE BY THOUSANDS OF CALIFORNIA POULTRYMEN

## SEARCHLIGHT EGG TESTER



Infertile eggs in an incubator mean a loss of time and money. The testing of eggs is a very important part of incubation and a little expense at the beginning will pay well in the end. The Searchlight will do the job quickly and do it well. It should be a part of your equipment, whether you are operating one incubator or a dozen. Postpaid \$5.00.

## INCUBATOR THERMOMETERS

Each

No. 5770 Incubator Thermometer.....	\$1.00
No. 5780 Incubator Thermometer.....	.85
No. 5783 Incubator Thermometer.....	1.00
No. Z-3017 Incubator Thermometer.....	1.00

## BROODER THERMOMETERS

No. 5792—Eight inches long. Round wood frame.....	each \$ .75
No. 5794—Flat Silvered Brass.....	each .75

## HYGROMETER

The Hygrometer is not a regulator of moisture, but it indicates the moisture present in atmosphere surrounding the eggs and enables the operator to maintain correct conditions so that eggs will not dry down too much.

No. 5796 each \$1.75

## ALBATROSS PURITOL

Keeps the Coops and Barns White and Sanitary.

Albatross Puritol is a white disinfectant paint in dry powdered form and is ready for use when mixed with cold water. It is one of the best forms of health insurance for stock and poultry. May be applied to any solid surface, such as wood, cement, brick, stone or iron, and when dry will be snow white. It is economical in cost, is durable, easy to apply and is a powerful disinfectant. It kills mites, fly eggs and lice.

Price (1½ lb. pkg. 40c) (6 lbs. for \$1.10) postpaid.



## HUMPTY-DUMPTY EGG CARRIER

One of the handiest egg carriers on the market. This carrier will hold twelve (12) dozen eggs. Can be folded flat for shipment and is made of strong but light wooden slats fastened with strong steel wires. Very handy and something every poultryman should have. Price, \$1.10 each, f. o. b. Los Angeles. Weight 6 lbs.

## POULTRY PUNCHES

A Practical Punch for Marking Baby Chicks



Petty's, 25c each postpaid

## BUHACH POWDER

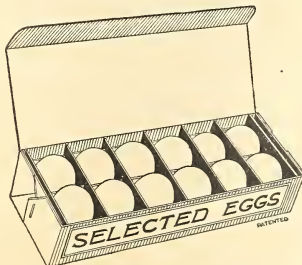
For dusting setting hens and baby chicks. No danger in using it. (Pkgs. 25c) (3 oz. 50c) (12 oz. \$1.25) (5 lbs. \$7.50) f. o. b. Los Angeles.

## HOT BED THERMOMETERS



Indispensable to gardeners for indicating the temperature of hot beds. No. 5981 Price \$3.00 each.

## A & M Egg Boxes



These boxes are strong and neatly made, partitions full, thus protecting the eggs.

Very convenient for marketing eggs by the dozen.

PRICES

2x6—	
Doz. 30c; 100, \$2.00	
3x4—	
Doz. 25c; 100, \$1.85	
F.O.B. Los Angeles.	

## A & M Egg Testers

No. 2—Tin with opening on side 40c postpaid.  
No. 3—Tin made to fit any lamp, 50c postpaid.

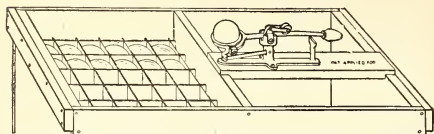


## China Nest Eggs

We handle only the best grade of glass eggs, strong and durable. 65c dozen, 75c postpaid.



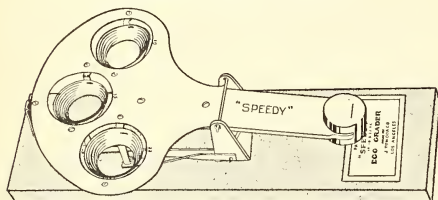
## RELIABLE EGG SCALE



The RELIABLE Egg Scale is built for speed, accuracy and endurance. It has a quick double shift, just a flip of the finger, and you can get all the weights required with the one shift, thereby taking the place of two scales.

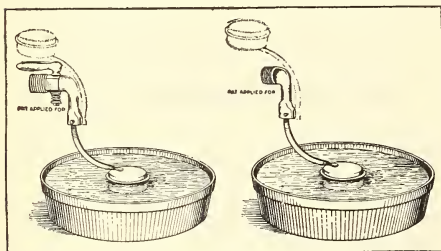
Price \$2.90 each, f. o. b. Los Angeles; \$3.00 postpaid.

## SPEEDY EGG SCALE



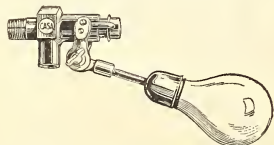
Very efficient scale for grading, U. S. Standards (15, 19 and 22 oz. per doz.) No weights are necessary and considerable time is saved in grading. Price \$2.95. By mail \$3.10.

## RELIABLE AUTOMATIC FOUNT



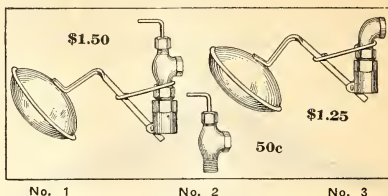
Especially designed for poultry ranches. Is made entirely of brass and copper and will last indefinitely. Capacity about one quart per minute. Easily installed and will work under any water pressure. Complete, \$1.35. Without Shut-off Valve, \$1.00. (Postpaid)

## CASA FOUNT



The float consists of an ordinary electric globe which can be replaced by any burnt out globe from the house. The water level is regulated by a simple method of adjusting the float. Can be simply and effectively shut off. Very efficient and durable. Price \$1.35 postpaid.

## THE WATER BOY



No. 1

No. 2

No. 3

### Automatic Fountain for Poultry and Pet Stock

The No. 1 Water Boy Combination shown above includes pressure regulating shutoff, with automatic float valve. The automatic may be detached from the upper shutoff without disturbing the water line and the fowls need not be without water as the shutoff may be used alone as a drip. The Combination No. 1 with brass lever and brass float \$1.50.

No. 2—Fig. No. 2 above shows shutoff valve and this may be used alone as a drip valve or in combination with automatic valve. No. 2 drip valve price 50c.

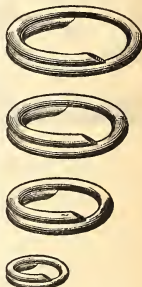
No. 3—As shown above this is the Water Boy automatic float valve with brass lever, brass float and street ell. No. 3 Combination \$1.25.

## LEG BANDS FOR POULTRY

Spiral Leg Bands are made in all colors and all sizes, and are put on and taken off like a key ring. Can't drop off. Colors are black, white, red, yellow, blue, green, purple, light blue, maroon and pink. In ordering please state color wanted, also name of breed. Leghorn, Rocks, Rhode Island Reds or Turkeys. It enables us to fill the order satisfactorily. Prices:

12 Bands for.....	\$ .15 postpaid
25 Bands for.....	.25 postpaid
50 Bands for.....	.50 postpaid
100 Bands for.....	.75 postpaid
500 Bands for.....	3.50 postpaid
1000 Bands for.....	7.00 postpaid

Spiral Band for Chick, Bantam and Pigeon size as follows: 12 for 15c; 25 for 25c; 50 for 40c; 100 for 65c; 500 for \$3.00; 1000 for \$5.50. These bands come in the same colors as given above for Poultry Bands.



Spiral Leg Bands



FLAT ALUMINUM  
LEG BANDS  
These bands fit  
any variety fowls.

Price—(Numbers run from 1 to 1,000) (25 for 30c) (50 for 50c) (100 for 75c) postpaid.

### ECLIPSE DOUBLE NUMBER COLORED— For Chickens



In Unbroken Sets Only

Large double numbers on colored background. In 12 colors, 3 sizes. State breed and set. (12 for 40c) (25 for 75c) (50 for \$1.45) (100 for \$2.75) postpaid.

## ELITE PIGEON BANDS

Carried in all colors and in unbroken sets only.



6 pairs.....	25c
12 pairs.....	50c
25 pairs.....	\$1.00
50 pairs.....	\$2.00
Postpaid	

## DR. HESS' POULTRY AND STOCK PREPARATIONS

Prices are f. o. b. Los Angeles

### Dr. Hess' Poultry Pan-a-min Helps to Keep Poultry Healthy and to Make Hens Lay



Pan-a-min, formerly known as Panacea should be fed regularly the year round to obtain the best results from your flock. Car loads of this proven food tonic are sold in the large poultry districts of California. It is an excellent tonic for moulting time, is an egg producer and is an economical and highly satisfactory food.

**PRICES:**

3 lb. pkg.	\$ .65
7 lb. pkg.	1.25
15 lb. pkg.	2.25
25 lb. pkg.	3.50
100 lb. drum	12.00



### Poultry Tablets

While there is no absolute cure for roup, Dr. Hess' Poultry Tablets are of high value in treating locally the swellings incident to the disease. The tablets are used as a local antiseptic and to medicate the drinking water.

100 tablets	\$ .50
225 tablets	1.00

### CAPONIZING SETS

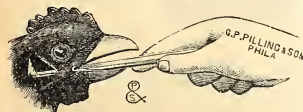
This set is one of the latest design. It is a combination of tools that can be used with one hand and seldom causes the operator to slip and cause the loss of the bird.

We carry the following sets:  
Pillings Cornell ..... \$5.50  
Pillings Farmer ..... 4.00  
Pillings Special ..... 5.00

We suggest that you use either the Cornell or Farmer. They are packed in a fine oak case. Each set contains full instructions.



### PILLING ANGULAR KILLING KNIFE



Showing the Angular Killing Knife

By simply turning the wrist the jugular vein and spinal cord are cut, thereby bleeding the fowl, allowing the feathers to be removed without using water. 85c postpaid.

### FRENCH POULTRY KILLING KNIFE

Every poultry raiser should have one of our Killing Knives. They are made of a finely tempered instrument steel with nickeled handle; will last a lifetime. Don't wait. Send for one now. Sent securely packed by mail. 85c postpaid.



### Poultry Ver-mi-trol

(For Worms in Poultry)

Ver-mi-trol is a flock treatment. No individual handling of birds is necessary. It is simply given with the feed in two 10-day courses, three weeks apart with Pan-a-min fed regularly.

4 lb. pkg., 50 hen size	\$1.50
10 lb. pkg., 125 hen size	3.25
25 lb. pkg., 300 hen size	7.50

### Chick Tablets

Most diarrheal conditions in chicks are the result of improper feeding or brooding and can be corrected by Dr. Hess' Chick Tablets.

100 tablets	\$ .50
225 tablets	1.10

### Instant Louse Killer



Kills lice on contact on stock and poultry. Easily applied by putting in dust bath. It is non-poisonous and may be used on edible plants and flowers for plant lice. In handy sifting top cans.

1 lb. pkg.	30c
2½ lb. pkg.	60c

### Fly Chaser

Highly refined product developed thru fifteen years of experimentation. In addition to protecting cows and horses from flies it is an excellent disinfectant.

¼ gal. can	\$1.00
1 gal. can	1.75
5 gal. can	8.00

### Antiseptic Powder

For treatment of cattle for wire-cuts, scratches, galls, and wounds. Equally valuable for household use.

4 oz. can	25c
10 oz. can	50c

### Stock Tonic

This product has been serving the dairy interests of the country for upwards of 35 years.

A summary of many comparative tests, covering three whole years shows that cows receiving Dr. Hess' Stock Tonic produce on the average, 54.9% more profit than cows not getting the Tonic.



5 lb. pkg.	\$ .85
15 lb. pkg.	2.25
25 lb. pkg.	3.50
100 lb. drum	12.00

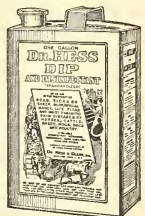
### Hog Special

A conditioner and mineral supplement for hogs only.

15 lb. pkg.	\$2.25
25 lb. pkg.	3.50
100 lb. drum	12.00

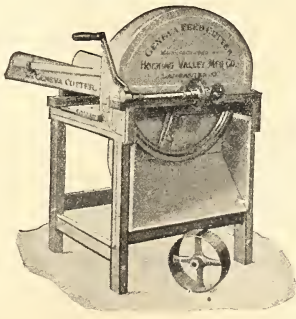
### Dip and Disinfectant

A standardized product with an established carbolic acid co-efficient. Valuable about barns and stables kills hog lice and other parasites and keeps down foul odors.



Pint bottle	\$ .50
¼ gal. can	.75
½ gal. can	1.25
1 gal. can	2.25
5 gal. can	9.00

### GENEVA FEED CUTTERS



This ideal feed cutter is adaptable to all kinds of feed, green or dry, from the finest prairie grass to the largest corn stalks, and it is the most satisfactory machine for the poultry raiser. The knives are on a balanced wheel and the machine can be regulated to cut from ¼ in. to 1½ in., which is a very popular feature. All parts are adjustable to wear and replaceable, giving the machine long life. The frames are hardwood, finished in natural color. May be used as a hand or power machine. We carry four sizes.

Length of Cut	Length Knife	Weight	Pulleys	Price
No. 4 ¼ to 1½	8-inch	176 lbs.	Extra	\$47.50
No. 6 ¼ to 1½	9-inch	204 lbs.	Extra	52.50
No. 8 ¼ to 1½	10-inch	238 lbs.	Extra	58.50
No. 10 ¼ to 1½	10-inch	270 lbs.	10x4 reg. eq.	68.50

Pulley for No. 4, 6 or 8, \$3.00. All prices are f.o.b. Los Angeles.

**DIVERSOL—Excellent Poultry and Household Deodorant and Disinfectant—See page 93**



## BIRD SUPPLIES

HALLER'S BIRD FOODS  
AND REMEDIES

We have found Haller's Bird Supplies to be a very superior line in every way. Apart from the value of the contents the bottles and containers are packed in a very efficient manner, thus preventing any deterioration through worms.

**Dutch Song Restorer**—Keeps canaries in full song. Good in cases of Asthma and Diarrhea. It never fails ..... **Pkg. or Bottle** ..... \$25

**Bird Bitters**—A splendid remedy for loss of song, weakness, moulting, etc. .... \$20

**Bird Flea**—Can be fed all the year for best condition and full song. A treat ..... \$15

**Bird Nesting**—Essential at breeding time ..... \$10

**Bird Tonic**—Call for this when the bird has a cold. It is a preventative as well as a relief for all diseases ..... \$25

**Canary Color Food**—Will bring out that bright yellow in both young and old ..... \$25

**Moulting Food**—A tonic food for feeding during the moulting period ..... \$25

**Health Food**—Should be fed at commencement of breeding. A fine builder ..... \$25

**Feather Restorer**—For bald headed birds ..... \$25

**Sure Egg Maker**—Makes the hen birds lay ..... \$35

**Nesting Food with Cod-Liver Oil**—A bone and body builder. Essential to young birds. .... \$15

**Mocking Bird Food**—For soft bill birds ..... \$35

**Parrot Food**—A balanced ration for parrots ..... \$25

**Parrot Tonic**—A preventative as well as cure for all diseases ..... \$25

**Sore and Scaly Leg Oil**—Valuable for treating stings, insect bites, etc. .... \$25

**Mite Powder in Bellows**—Useful for dusting the cage as well as the bird. Dust under the wings and the bird will spread the powder over itself ..... \$30

**Cage Wash**—A good spray for killing all mites and mite eggs in cages ..... \$25

**Japanese Sun Dried Pepper Pods**—Beneficial during cool weather ..... \$10

**Maw or Poppy Seed**—For mixing with regular seed about twice a week ..... \$25

**Haller's Canary and Parrot Guide Sent Free on Application**

## BIRD CAGES



We carry a full supply of cages in brass, bronze, gun-metal, enamel, two-tone, et cetera. Also floor stands in the latest designs to match all cages. A complete stock is on display at our Retail Store, 750 S. Spring, and you are invited to inspect them at your convenience.

## A &amp; M Roller Mixture

Contains the very best imported Sweet German Rape and clean plump canary seed. This mixture will keep the bird in song and in good health. 1 lb. pkg. 20c; 5 lbs. 85c. Postage extra.

**A & M Mixed Bird Seed**—Recommended for home raised birds. 1 lb. pkg. 15c; 5 lbs. 65c. Postage extra.

**Bird Manna**, pkg. .... 15c

**Canary Seed**, 1 lb. .... 15c

**Hemp**, 1 lb. .... 15c

**Millet, large**, 1 lb. .... 15c

**Millet, small**, 1 lb. .... 15c

**Rape, Bird**, 1 lb. .... 15c

**Rape, Sweet German**, 1 lb. .... 25c

**Sunflower**, 1 lb. .... 15c

**A & M Gravel** (2-lb. carton) .... 10c

**Cuttle Bone**, each ..... 05c

**Book, Amer. Canary Bird Culture** ..... 35c

**A & M Natural Fish Food**, pkg. .... 10c

(Postage extra)

Bird Cage Accessories  
Cage Hooks

10-inch brass	Each
12-inch brass	20c
	25c

## Cage Springs

Single spring, light weight	15c
Single spring, heavy weight	20c
Double spring	30c
2-foot chain and spring	30c

## Bath House

Glass enclosed	90c
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## Bath Dish

Opal, large size	20c
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## Bird Cups

Tulip shape (open at top), opal	15c
Tulip shape (open at top), crystal	15c
Closed, opal	20c
Closed, opal	20c
Food holder or treat cup, 1½ in.	10c
Long	10c
Swings	10c
Wire Nest	15c

## Clayton's Dog and Cat Remedies



BOOK ON DOG DISEASES—AND HOW TO FEED—FREE

The success Dr. Clayton's Remedies enjoy is due to the fact that each remedy is composed of the best drugs known to science for the disease for which they are prescribed.

The pills and tablets are put up in the smallest form possible to contain the proper dose, thus making them easy to administer.



Clayton's

Cat

Remedies

## Clayton's Dog Remedies

Mange Remedy	60c	Fit Remedy	60c
Skin Lotion	60c	Cough Remedy	60c
Hair Tonic	60c	Sulphur Tablets	60c
Distemperine Liquid	60c	Puppy Tonic	60c
Condition Pills with Pepsin	60c	Rheumatic Tablets	60c
Blood Purifying and Cooling Tablets	60c	Diarrhea Remedy	60c
Digestive Tablets	60c	Chorea Tablets	60c
Laxative Pills	60c	Ceoline Wash and Disinfectant	35c
Worm Pills	60c	Shampoo	25c
Tape Worm Expeller	60c	Killflea Soap	25c
Vermifuge Soft Capsules	60c	Killflea Powder	35c
Vermifuge	60c	Cream Soap	25c
Canker Lotion	60c	Ceoline Soap	25c
Distemperine Tablets	60c	Cod Liver Oil	\$1.00
Eye Lotion	60c	Goitre Remedy	\$1.00

Write for Clayton's "Treatise on the Cat."

Mange Remedy	60c
Distemperine	60c
Distemperine Tablets	60c
Tonic Catnip and Condition Tablets	60c
Blood Purifier and Cooling Tablets	60c
Digestive Tablets	60c
Laxative Tablets	60c
Worm Tablets	60c
Tape Worm Expeller Tablets	60c
Vermifuge Liquid	60c
Canker Lotion Tablets	60c
Eye Lotion Tablets	60c
Fit Tablets	60c
Cough Remedy	60c
Diarrhea Tablets	60c
Mouth Wash	60c
Wash and Disinfectant	25c
Cat Soap	25c
Cod Liver Oil	\$1.00

## Dog and Cat Preparations

### MILLER'S A-1 DOG FOODS

Miller's A-1 Products were originated and are being manufactured by men who own and love dogs. They are offered as a high quality food and are not a product of any other line of manufactured foodstuffs. There is no set rule for feeding the dog. Size along would break any feeding rule. Any dog enjoys an occasional change of diet the same as human beings and for this reason Miller's A-1 Dog Foods are offered in a variety. First, there is the well-known Biscuit, then the Kibbled Biscuit, and the Rations. The last named is splendid for an occasional change. Write for free booklet, "THE PINK OF CONDITION," a treatise on dogs.



#### Miller's A-1 Biscuit

If your dog is not accustomed to eating Miller's A-1 Biscuit, it is suggested that the change be made gradually. A-1 Biscuit is made of fresh beef, wheat, oatmeal, corn, cod liver oil and bone. The vitamins are there and dogs thrive on this biscuit.

25 lb. sack	.....\$ 3.25
50 lb. sack	.....6.35
100 lb. sack	.....12.25

F.O.B. Los Angeles.

#### Miller's A-1 Kibbled Biscuits



This is Miller's A-1 broken up into convenient form for mixing with meats, soups, gravy, vegetables, etc.

25-lb. sack	.....\$ 3.35
50-lb. sack	.....6.50
100-lb. sack	.....12.50

F.O.B. Los Angeles.

#### Miller's A-1 Ration



A granular cereal meat food, thoroughly cooked, ready for use. For all breeds and ages.

25-lb. sack	.....\$ 3.00
50-lb. sack	.....5.85
100-lb. sack	.....11.50

F.O.B. Los Angeles.

#### Miller's A-1 Puppy Meal



Especially adapted for the tender digestive organs of young puppies. It insures good bone and muscle for growing dogs. It should be fed with easily digested foods such as milk, soups, or finely ground meat.

25-lb. sack	.....\$ 3.35
50-lb. sack	.....6.50
100-lb. sack	.....12.50

F.O.B. Los Angeles.

### KEN-L-RATION

The Original Canned Food For Dogs. A complete food requiring no preparation whatever. Open the can and serve on a clean paper or suitable dish. In cold weather the food may be warmed by immersing the can for a moment in hot water. The product contains a high percentage of meat, serial, calcium, phosphate, and cod liver oil in light proportion to make a scientifically balanced food for dogs and all carnivora. 1 lb. can 15c, 7 cans for \$1.00. Case of 48 1-lb. cans \$6.25, f.o.b. Los Angeles.

### PUP-E-RATION

Contains red meat, organic iron, calcium sulphate, Norwegian cod liver oil and marrow-fat—the elements necessary for growth of body, bone and coat. This is a perfect food for puppies. 1 lb. can 25c, 5 cans \$1.00. Case of 48 one lb. cans \$8.50 f. o. b. Los Angeles.

### HEMO-RATION

A blood making food especially recommended for breeding animals of both sexes. For anemic or convalescent animals it is invaluable. It carries a large percentage of cod liver oil and is rich in organic iron and calcium phosphate. 1 lb. can 25c, 5 lb. can \$1.00. Case of 48 one lb. cans \$8.50, f. o. b. Los Angeles.

### MARRO-MEAT

A clear meat and marrow product. Too concentrated for straight feeding. A two and one-half pound can, supplemented with water and roughage, will make from eight to twelve pounds of appetizing, nourishing food for kennel use. 2½ lb. can 45c, f.o.b. Los Angeles.

### KIT-E-RATION

The cat food supreme. This canned preparation is a wonderfully balanced ration ready to serve. The ingredients contain properties so very essential for the growth and development of the cat or kitten. 1-lb. can 15c; 7 1-lb. cans \$1.00; case of 48 1-lb. cans \$6.25; f.o.b. Los Angeles.

### CATNIP MICE

Your cat will enjoy a catnip mouse and you will enjoy seeing the play. Each 15c postpaid.



## Diversol

### CLEANSER—DESTROYS BACTERIA—DEODORIZES

Diversol is sodium hypochlorite chemically combined with alkaline phosphate in crystalline form. It is a wonderful new product for sterilizing, cleaning and deodorizing. It is **non-poisonous** and can be used in cold or lukewarm water.

**For the Poultryman**—Used in the drinking water Diversol destroys bacteria instantly and stops further communication from diseased birds to the rest of the flock. It is also a specific for treatment of colds, roup, chicken pox and favus. As a spray for incubators it is indispensable.

**For the Dairy Farmer**—Diversol fulfills a long felt want for a product to take the place of steam and hot water for sterilizing all dairy equipment. One pound is sufficient to make 100 gallons of rinsing solution.

**For General Household Use**—Diversol offers many advantages to the housewife in cleaning and deodorizing refrigerators, bread boxes, garbage cans and so forth. For laundering, dishwashing and bathing it softens the water and eliminates soap deposit. It removes stains and bleaches cottons and linens. Full directions with each package.

1 lb. pkg. 75c, 2 lb. pkg. \$1.00, 10 lb. pkg. \$4.00, postage extra.





Owing to the diversity of the soil and climatic conditions of the great Southwest, it is impractical to follow without some deviation any table that might be formulated. We believe this table is as nearly correct as any table can be made, yet the time of planting must vary with each season, and so seldom are the seasons at all similar that there is always an element of risk for the man who plants early. Each month, too, requires certain varieties best suited to the season and purpose for which it is planted.

## VEGETABLE CALENDAR FOR THE HOME GARDEN

VARIETY	NO. OF PLANTS PER OUNCE OF SEED	SEED FOR 50 feet	ROWS APART	APART IN ROWS	TIME OF PLANTING	READY FOR USE
Artichoke	200	12 plants	4 ft.	4 ft.	Dec. to April	5 mo.
Asparagus	150	50 roots	20 in.	1 ft.	Dec. to April	2nd spring
Beans, Bush	50 to 100	2 pkts.	2 ft.	6 in.	March to Sept.	8 to 12 wks.
Beans, Pole	50 to 100	2 pkts.	3 ft.	12 in.	April to Aug.	10 to 12 wks.
Beans, Lima	30 to 60	1 lb.	2 ft.	10 in.	April to Aug.	12 to 14 wks.
Beets	300	1 pkt.	10 in.	6 in.	All year	10 to 12 wks.
Cabbage	2000	36 plants	20 in.	15 in.	All year	14 to 16 wks.
Carrot	1500	1 pkt.	10 in.	Sow	All year	8 to 10 wks.
Cauliflower	2000	30 plants	20 in.	18 in.	Sept. to March	14 to 15 wks.
Celery	1000	100 plants	20 in.	6 in.	March to Aug.	16 to 18 wks.
Corn, Sweet	100	1 pkt.	2 ft.	18 in.	March to Aug.	10 to 12 wks.
Cucumber	200	1 pkt.	3 ft.	4 ft.	March to Sept.	10 to 12 wks.
Endive	1000	1 pkt.	1 ft.	10 in.	Sept. to March	14 to 18 wks.
Eggplant	500	24 plants	2 ft.	2½ ft.	April to July	10 to 12 wks.
Kale	1000	30 plants	2 ft.	18 in.	All year	8 to 10 wks.
Kohl Rabi	1000	1 pkt.	10 in.	Sow	All year	10 to 12 wks.
Lettuce	200	1 pkt.	15 in.	10 in.	All year	12 to 16 wks.
Musk Melon	200	1 pkt.	4 ft.	3 ft.	March to July	14 to 18 wks.
Water Melon	100	1 pkt.	4 ft.	4 ft.	March to July	16 to 20 wks.
Okra	150	1 pkt.	2 ft.	18 in.	April to July	10 to 12 wks.
Onion Seed	500	1 pkt.	10 in.	Sow	All year	24 to 28 wks.
Onion Sets	1 lb.	10 in.	3 in.	All year	All year	14 to 18 wks.
Parsnips	300	½ ounce	2 ft.	Drill	Aug. to March	14 to 18 wks.
Parsley	400	1 pkt.	10 in.	Sow	All year	12 to 14 wks.
Pepper	1000	30 plants	20 in.	18 in.	April to July	10 to 12 wks.
Potatoes	5 lbs.	2 ft.	1 ft.	March to Aug.	10 to 14 wks.	
Sweet Potatoes	50	50 plants	3 ft.	1 ft.	April to July	10 to 12 wks.
Pumpkin	100	1 pkt.	6 ft.	5 ft.	April to July	12 to 14 wks.
Peas	50	¼ lb.	2 ft.	Sow	Sept. to March	14 to 20 wks.
Radish	500	1 pkt.	10 in.	Scw	All year	4 to 8 wks.
Rhubarb Roots	100	24 roots	3 ft.	2 ft.	Dec. to March	8 to 10 wks.
Roselle	150	1 pkt.	3 ft.	2 ft.	April to May	18 to 20 wks.
Salsify	200	10 in.	10 in.	Sow	Sept. to March	14 to 18 wks.
Spinach	200	1 pkt.	12 in.	Sow	Sept. to April	8 to 12 wks.
Squash, Summer	100	1 pkt.	3 ft.	3 ft.	April to Aug.	10 to 12 wks.
Squash, Winter	200	1 pkt.	6 ft.	4 ft.	April to Aug.	12 to 16 wks.
Tomato	1000	18 plants	4 ft.	3 ft.	March to Aug.	12 to 14 wks.
Turnip	2000	1 pkt.	10 in.	Sow	Sept. to March	10 to 12 wks.

The soil should be Moist enough at time of planting to germinate the seed without irrigation. The depth of planting in heavy soil should be from ¼ in. for very small seeds to 1 in. for beans and peas, in sandy soil the seed may be planted from ½ in. to 2 inches.

In frostless sections the time of planting summer crops may be advanced a full month.

## VEGETABLE CALENDAR FOR FIELD PLANTING

VARIETY	SEED PER ACRE	ROW APART	APART IN ROW	WHEN TO PLANT	TIME TO MATURE	APPROXIMATE YIELD AND VALUE PER ACRE
Artichoke	1 lb.	5 ft.	4 ft.	Oct. to Jan.	18 to 20 wks.	
Asparagus—roots	11000	4 ft.	1 ft.	Dec. to Feb.	1 year	
Asparagus, seed	3 lbs.	2 ft.	Drill	Feb. to March	2 years	
Beans, bush	40 lbs.	2 ft.	Drill to 6 in.	March to Aug. 1st	8 to 12 wks.	3 tons \$300
Beans, pole	30 lbs.	3 ft.	12 in.	April to July 1st	10 to 12 wks.	400 tons 400
Lima, bush	50 lbs.	32 in.	Drill to 6 in.	April to Aug.	10 to 12 wks.	4 tons 400
Lima, pole	40 lbs.	3 ft.	12 in.	April to Aug. 1	12 to 14 wks.	4 tons 400
Beets, table	10 lbs.	Double row	Drill	All year	10 to 12 wks.	12 tons 400
Beets, stock	4 lbs.	Double row	Drill	Oct. to May 1	10 to 12 wks.	400 tons 400
Carrots, table	3 lbs.	Double row	Drill	All year	10 to 12 wks.	12 tons 300
Carrots, stock	3 lbs.	16 in. "	Drill	Oct. to May 1	12 to 18 wks.	18 tons 200
Cabbage, plants	8000	30 in.	18 in.	All year	14 to 16 wks.	12 tons 200
Cabbage, seed	5 oz.	8 in. seed bed	Drill	All year	20 to 26 wks.	12 tons 200
Cauliflower, plants	7000	3 ft.	2 ft.	May to Feb. 1	14 to 16 wks.	
Cauliflower, seed	5 oz.	8 in. seed bed	Drill	May to Feb. 1	20 to 24 wks.	500 doz. 250
Celery, plants	30,000	30 in.	6 in.	March to Aug. 1	10 to 18 wks.	
Celery, seed	½ lb.	8 in. seed bed	Drill	March to Aug. 1	24 to 26 wks.	2000 doz. 600
Corn, Sweet	10 lbs.	3 ft.	18 in.	March to Aug. 1	10 to 12 wks.	400 box 150
Cucumbers	2 lbs.	4 ft.	3 ft.	March to Sept. 1	10 to 12 wks.	600 box 200
Cheery—Endive	7,000	Double row	Drill and thin to 10 in.	Sept. to Feb. 1	14 to 18 wks.	2000 doz. 600
Eggplant, plants	2 lbs.	Double row	Drill	April to July 1	10 to 12 wks.	
Eggplant, seed	¼ lb.	Hot bed	8 in.	Dec. to Feb. 1	18 to 20 wks.	10 tons 600
Kale	2 lbs.	Double row	Drill	Sept. to March 1	8 to 10 wks.	12 tons 300
Kohl Rabi	2 lbs.	Double row	Drill	Sept. to March 1	10 to 12 wks.	500 crates 500
Lettuce	2 lbs.	Double row	Drill and thin to 10 in.	Feb. 15 to June 15	14 to 18 wks.	400 crates 200
Musk Melon	1 lb.	6 ft.	5 ft.	Feb. 15 to June 15	16 to 20 wks.	15 tons 150
Water Melon	1 lb.	9 ft.	8 ft.	Feb. 15 to June 15	16 to 20 wks.	15 tons 150
Cassia	1 lb.	8 ft.	8 ft.	Feb. 15 to June 15	16 to 20 wks.	15 tons 150
Okra	6 lbs.	3 ft.	18 in.	March to Aug. 1	10 to 12 wks.	
Onion Seed	2 lbs.	Double row	Drill	Sept. to April 1	24 to 28 wks.	200 crates 200
Onion Sets	250 lbs.	Double row	4 in.	Dec. to Feb. 1	14 to 18 wks.	
Parsley	4 lbs.	Double row	2 ft.	Aug. to April 1	10 to 12 wks.	600
Parsnip	5 lbs.	Double row	2 ft.	Aug. to March 1	14 to 18 wks.	400 sks. 200
Peas	50 lbs.	30 in.	Drill to 6 in.	Sept. to March 1	14 to 20 wks.	4 tons 400
Pepper, plant	9,000	3 ft.	18 in. or drill seed in	April to June 1	10 to 12 wks.	
Pepper, seed	1 lb.	Hot bed	6 in. and thin to 18 in.	Jan. to April 1	15 to 20 wks.	10 tons 200
Pepper seed in seed bed	1 lb.	3 in.	Drill	Jan. to April 1		
Potatoes, Irish	600 lbs.	3 ft.	1 ft.	Feb. to Sept. 1	10 to 14 wks.	100 sks. 150
Potatoes, Sweet, plants	12,000	3 ft.	1 ft.	April to July 1	10 to 12 wks.	
Potatoes, Sweet, seed	400 lbs.	Hot bed	2 ft.	Jan. to Feb. 1	18 to 20 wks.	150 sks. 300
Pumpkin	1 lb.	10 ft.	10 ft.	April to July 1	12 to 14 wks.	20 tons 100
Radish	12 lbs.	Double row	Drill	All year	4 to 8 wks.	400
Rhubarb, roots	5,445	4 ft.	2 ft.	Sept. to April 1	8 to 10 wks.	
Rhubarb, seed	½ lb.	Double row	Drill	Jan. to April 1	16 to 18 wks.	
Roselle	3 lbs.	3 ft. thin to 1 plant	Drill	April to May	18 to 20 wks.	500
Spinach	12 lbs.	Double row	Drill to 6 in.	Oct. to April 1	8 to 12 wks.	6 tons 150
Squash, Summer	2 lbs.	4 ft.	3 ft.	March to Aug. 1	10 to 12 wks.	12 ton 200
Squash, Winter	1 lb.	6 ft.	4 ft.	April to Aug. 1	12 to 14 wks.	8 tons 300
Salsify	6 lbs.	Double row	Drill	Sept. to April 1	14 to 18 wks.	10 ton 150
Tomato Plants	1,200	6 ft.	6 ft.	March to Aug. 1	12 to 14 wks.	
Tomato, seed	2 oz.	Hot bed, Jan.	Out door drill 10 in.	March to June 1	18 to 20 wks.	
Turnip	3 lbs.	Double row	Drill	All year	10 to 12 wks.	12 tons 200

Number of Plants to Acre		DISTANCE APART		DISTANCE APART		Average Time Required for Seeds to Sprout	
Set at Regular Distances Apart		No. Plants		No. Plants			
DISTANCE APART	No. Plants						
1 ft. by 6 in.	87,120	5 ft. by 2 ft.	4,356	30 ft. by 30 ft.	48	Bean	5-10 days
2 ft. by 6 in.	43,560	5 ft. by 3 ft.	3,904	33 ft. by 33 ft.	40	Beet	7-10 "
2 ft. by 12 in.	21,780	5 ft. by 4 ft.	2,178	40 ft. by 40 ft.	27	Cabbage	5-10 "
2 1/2 ft. by 12 in.	17,425	5 ft. by 5 ft.	1,742	50 ft. by 50 ft.	12	Carrot	12-18 "
2 1/2 ft. by 18 in.	14,520	6 ft. by 3 ft.	2,420	60 ft. by 60 ft.	17	Cauliflower	5-10 "
2 1/2 ft. by 24 in.	11,616	6 ft. by 4 ft.	1,815	66 ft. by 66 ft.	10	Celery	10-20 "
3 ft. by 1 ft.	14,520	6 ft. by 6 ft.	1,200			Corn	5-8 "
3 ft. by 1 1/2 ft.	9,924	7 ft. by 7 ft.	883			Cucumber	6-10 "
3 ft. by 2 ft.	7,260	8 ft. by 8 ft.	680			Lettuce	6-8 days
3 ft. by 2 1/2 ft.	5,790	9 ft. by 9 ft.	537			Onion	7-10 "
4 ft. by 1 ft.	14,520	10 ft. by 10 ft.	435			Pea	6-10 "
4 ft. by 1 1/2 ft.	9,924	11 ft. by 11 ft.	360			Parsnip	10-20 "
4 ft. by 2 ft.	7,260	12 ft. by 12 ft.	302			Pepper	9-14 "
4 ft. by 2 1/2 ft.	5,790	14 ft. by 14 ft.	222			Radish	3-6 "
4 ft. by 3 ft.	5,445	16 ft. by 16 ft.	195			Turnip	4-8 "
4 ft. by 4 ft.	2,722	18 ft. by 18 ft.	134				
5 ft. by 1 ft.	8,712	19 ft. by 19 ft.	120				
		20 ft. by 20 ft.	105				
		25 ft. by 25 ft.	69				

Rule.—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and product will be number of square feet for each plant or hill; which divided into the number of square feet (43,560), will give the number of plants to the acre.

Plant radishes with slow growing vegetables to mark the rows for cultivation.

# CALENDAR FOR FORAGE AND FIELD CROPS

VARIETY	SEED PER ACRE	HOW TO PLANT	YIELD OF FORAGE	YIELD OF GRAIN LBS.
Alfalfa	20 lbs.	Drill or Broadcast.	8 to 10 tons.	600
Alfilaria	10 lbs.	Drill or Broadcast.	3 tons hay or pasture	
Beans—Bush	25 to 40 lbs.	Drill in rows 2 ft. apart		1500 to 2000
" Lima	50 to 60 lbs.	Drill in rows 3 ft. apart		1500 to 2000
" Windsor	75 to 100 lbs.	Drill in rows 2 ft. apart	Cover crop.	2000
Beets—Stock	8 lbs.	Drill in rows 1 ft. apart	20 to 25 tons beets.	
Cane or Sorghum	5 to 40 lbs.	Drill 5 or broadcast 40.	15 to 20 tons green fodder	
Carrots—Stock	4 lbs.	Drill in rows 18 in. apart	20 to 25 tons carrots.	
Clover—Burr	20 lbs.	Drill or Broadcast.	Pasture or cover crop	
" Trifolium	10 lbs.	Drill or Broadcast.	Pasture or cover crop	
Corn—Indian	10 lbs.	Drill 2 ft. apart in rows 3 ft. apart		3000 to 4000
" Ensilage	40 lbs.	Drill 1 ft. apart in rows 30 in. apart	20 to 40 tons ensilage	
" Broom	5 lbs.	Drill in rows 3 ft. apart	1/2 ton broom straw	1500
" Egyptian	3 lbs.	Drill in rows 3 ft. apart	2 tons dry	2500 to 4000
" Kafr	3 lbs.	Drill in rows 3 ft. apart	2 tons dry	3000
" Pop.	6 lbs.	Drill 1 ft. apart in rows 30 in. apart		1500 to 2000
Cotton	15 lbs.	Drill 18 in. apart in rows 4 ft. apart	1 to 1 1/2 bales and seed.	
Cow Peas	40 lbs.	Drill 1 ft. apart in rows 3 ft. apart	Pasture or cover crop	1500
Fenita	3 lbs.	Broadcast.	Pasture Mixture	2500 to 4000
Grain—Barley	40 lbs.	Drill or Broadcast.	2 to 4 tons hay	2000 to 3000
" Buckwheat	45 lbs.	Drill.	Cover crop.	
" Flax	30 lbs.	Drill.	Fiber	1500
" Oats	30 lbs.	Drill or Broadcast.	3 tons hay	2000
" Rye	80 lbs.	Drill.	Pasture or cover crop	3000
" Wheat	60 lbs.	Drill or Broadcast.	2 tons	2000
Grasses—Bermuda	5 lbs.	Broadcast.	Pasture mixture	
" Bromo	20 lbs.	Broadcast.	Pasture mixture	
" Fescue	20 lbs.	Broadcast.	Pasture Mixture	
" Italian Rye	30 lbs.	Broadcast.	Hay and pasture (damp land)	
" Kentucky Blue	50 lbs.	Broadcast.	Pasture Mixture	
" Orchard	25 lbs.	Broadcast.	Pasture Mixture	
" Paspalum	10 lbs.	Broadcast.	Cut 1 1/2 tons per acre	
" Perennial Rye	20 lbs.	Broadcast.	4 times (damp land)	
" Red Top	14 lbs.	Broadcast.	Hay and Pasture	
" Rhodes	12 lbs.	Broadcast.	Pasture Mixture	
" Smilo	6 lbs.	Broadcast.	Cut 2 tons per acre 3 times or pasture.	
Sudan	5 to 25 lbs.	Drill 5 or broadcast 25.	Hay or pasture.	
Sorghum	8 lbs.	Drill in rows 30 in. apart	12 tons hay or pasture	
Sunflower	5 lbs.	Drill in rows 3 ft. apart	15 tons green.	2000
Vetch	30 to 40 lbs.	Drill in rows 1 ft. apart or broadcast.	Pasture or cover crop	
Wonder Forage	5 to 25 lbs.	Drill 5 or broadcast 25.	12 tons hay or pasture	

# NAMES OF VEGETABLES IN FOREIGN LANGUAGES

English	French	Italian	Polish	German	Spanish	Scandinavian
Asparagus	Asperge	Sparaghi	Szparagi	Spargel	Asparago	Asparages
Beans	Haricots	Fagioli	Fasolia	Bohnen	Habichuela	Bourne
Beet	Betterave	Barbabietola	Buraki	Rube	Remolacha	Roedbede
Cabbage	Chou	Cavolo Cappuccio	Kapusta	Kopfkohl	Kol repello	Kaal
Carrot	Carotte	Carota	Marchewka	Carota	Zanahoria	Qulered-Karoter
Cauliflower	Chou-fleur	Cavolfiore	Kalaflory	Blumenkohl	Color	Blomkaal
Celery	Celeri	Sedano	Selery	Sellerie	Apio	Selleri
Corn	Mais	Mais	Kukurydza	Mais	Maiz	Maiz
Cucumber	Concombre	Cetriolo	Ogorek	Curken	Colombro	Asurk
Dandelion	Dente di leone	Papavero	Papawa	Lowenzahn	Diente de leon	Voeteland
Eggplant	Aubergine	Petronciano	Gruszka	Eierflanze	Berengena	Egplante
Endive	Chicoree	Endivia	Endyvia	Endivien	Endivia	Endieve
Kale	Chou vert	Cavolo verde	Solanka	Blatterkohl	Breton, Berza	Groenkaal
Kohlrabi	Chou-rave	Cavolo rapa	Kalarapa	Kolrabi	Col Rabe	Kanlrabi
Leek	Poireau	Porro	Pory	Porree	Puerro	Purre
Lettuce	Laitue	Lattuga	Salapa	Salad	Lechuga	Salat
Melon, Musk	Melon	Popone	Melon	Melone	Melon	Melon
Melon, Water	Melon d'eau	Melone d'aqua	Melon, Wodny	Melonen-Melone	Sandia	Vandmelon
Mushroom	Champignon	Fungo	Pratajoio	Grzyb	Schwamm	Seta
Okra	Gombaud	Oera		Ocher	Gombo	Hibiscus
Onion	Ognon	Cipollo	Cebula	Zwiebel	Cebolla	Roedloek
Parsnip	Cerail	Prezenolo	Pietruska	Petersilie	Percil	Persille
Parsnip	Penalis	Pastinaca	Pasternak	Pastinake	Chirvia	Pastnak
Peas	Pois	Pisello	Groch	Erisen	Guisante	Erier
Pepper	Piment	Peperone	Pieprz	Pfeffer	Pimiento	Spansk Pepper
Pumpkin	Potiron	Zucca	Rzpie	Melonen-Kurbiss	Calabaza Tonanera	Craskas
Radish	Radis	Ravanello	Rzodkiew	Radis	Radis	Reddik-Radis
Salsify	Salsifis	Sassericca	Jarzy Ostryga	Haferwurzel	Salsif	Havverd
Spinach	Epinaud	Spinace	Szpinak	Spinat	Espinace	Spinat
Squash	Courge	Zucca	Miekurz	Kurbiss	Calabaza	Squash-graeskar
Swiss Chard	Chou-chou	Chard	Chard	Beisskohl	Bieda	Blad bede
Tomato	Tomate	Pomo d'oro	Pomidor	Ejebesanel	Tomate	Tomat
Turnip	Navet	Navone	Rzeka brukiew	Weisse-Rube	Nabo	Turnips



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Polk Lachryma)		Parsley	56	Thalictrum	58
ilworth Ivy	13	Parsnip	24	Thermometers	89
l-Ration	93	Passiflora	24	Thunbergia	68
ing Knives	91	Peanuts	50	Tigridia	58
hia	47	Peas, Garden	25	Tithonia	58
h Rabi	13	Peas, Field	77	Tobacco	29
lzu Vine	13	Peat Humus	80	Tobacco Stems	83
sses, Pot and Tree	87	Peat Moss	80	Tobacco, Flowering—	
tana	47	Pentstemon	50	(see Nicotiana)	
skspur Perennial—	48	Pepper	22-23	Tomato	30-31
(see Delphinium)		Petunia	53	Transplanter	87
hyrus	48	Phaeolus	53	Transvaal Daisy	58
atera	48	Phlox	54	(see Gerbera)	
atera Assur-		Physalis Franchetii	50	Tree Labels	86
entiflora	40	Physostegia	51	Tree Protectors	86
en Edgers	88	Pinks—(see Dianthus)	86	Tree Seeds	63-64
en Grass	88	Plant Covers	15	Tree Tanglefoot	86
en Supplies	88	Planting Calendar	94-95	Tritoma	58
of Mold	88	Plants Seeded	86	Trowels	87
k Bands	88	Poa Trivialis	52	Trompet Flower	86
ostrophon	40	Polemonium	30	(see Datura)	
uce	14	Polyanthus—See Primula		Tuberose Bulbs	66
en Regale Seed	49	Poppy	54	Tunica	58
Bulbs	66	Prun Grass	54	Tufted Fancies—	
80-83		Potatoes, Irish	24	(see Viola)	
ese Sulphur	47	Potato Fertilizer	24	Turnip	31
um	47	Potentilla	54	Valeriana	60
ella	48	Pots, Planting	86	Velvet Fertilizer	32-80
enberries	74	Poultry Remedies	91	Verbena	60
den Purple	81	Primula	54	Vetch	77
ee-in-a-Mist—		Protectors, Tree	86	Vinca	60
(see Nigella)		Pruning Compound	82	Viola Cornuta	60
ian	48	Pruning Shears	87	Violet	60
igold	48	Pumpkin	26	Virginia Creeper—	

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# A & M Planting Calendar for Southern California and Similar Climates

## JANUARY

**VEGETABLES**—Seeds of Asparagus, Beets, Brussel Sprouts, Cabbage, Carrots, Cress, Egg Plant, Endive, Kale, Kohl Rabi, Lettuce, Mustard, Onions, Parsley, Peas, Peppers, Potatoes, Radish, Rhubarb, Salsify, Spinach (Winter), Swisschard, Tomatoes, Turnips.

**FLOWERS**—Sow seeds in open ground: Acroclinium, Alyssum, Bartonla, Calendula, Calliopsis, Candytuft, Centaurea, Annual Chrysanthemums, Clarkia, Godetia, Lupin, Mignonette, Nigella, Poppies, California Poppy, Scabiosa, Schizanthus, Wild Flower Mixture, Sweet Peas, Lawn Grasses.

Sow in seed flats—Aquilaia, Delphinium, Larkspur, Phlox, Snapdragon.

**BULBS** of Amaryllis, Agapanthus, Caladium, Gladiolus, Lilliums, Narcissus, Ranunculus and Tuberoses, Tuberosus Begonia.

## FEBRUARY

**VEGETABLES**—Seeds of Asparagus, Beets, Beans, Cabbage, Carrots, Celery, Chervil, Corn Salad, Egg Plant, Kale, Kohl Rabi, Lettuce, Mustard, Onions, Parsnip, Peas, Peppers, Potatoes, Radish, Rhubarb, Salsify, Spinach (Summer), Squash, Swisschard, Tomatoes, Turnips.

**FLOWERS**—Sow seeds in open ground: Acroclinium, African Daisy, Alyssum, Bartonla, Calendula, Calliopsis, Candytuft, Centaurea, Clarkia, Early Flowering Cosmos, California Poppy, Dahlia, Gypsophila, Hunnemannia, Larkspur, Linaria, Linum, Lupin, Mignonette, Nasturtium, Nemophila, Nigella, Poppies, Phlox, Salpiglossis, Schizanthus, Scabiosa, Sweet Peas, Wildflower Mixture, Lawn Grasses.

Sow in seed flats—Agathaea, Ageratum, Asters, Aquilegia, Begonia, Coreopsis, Delphinium, Gaillardia, Godetia, Helioch, Lobelia, Myosotis, Nemesis, Pentstemon, Petunia, Perennial Poppies, Shasta Daisy, Stocks and Viola Cornuta.

**BULBS** of Amaryllis, Caladium, Cannas, Gladiolus, Lilliums and Tuberoses, Tuberosus Begonia.

## MARCH

**VEGETABLES**—Seeds of Asparagus, Beets, Beans, Cabbage, Carrots, Casaba, Corn, Cucumbers, Egg Plant, Kale, Lettuce, Melons, Okra, Onion, Onion Sets, Parsley, Parsnip, Peas, Potatoes, Pumpkin, Radish, Roselle, Salsify, Spinach (Summer), Squash, Tomatoes, Turnips.

**FLOWERS**—Sow seeds in open ground: Acroclinium, Ageratum, Alyssum, Arctotis, Amaranthus, Balsam, Bartonla, Brachycome, Calendula, Calliopsis, Candytuft, Celosia, Centaurea, Clarkia, Dahlia, Painted Daisy, Early Flowering Cosmos, Dahlia Seed, Daisies, Four o'Clocks, Godetia, Gomphrena, Gypsophila, Helichrysum, Hunnemannia, Kochia, Larkspur, Linum, Lupin, Marigold, Mignonette, Nasturtium, Nemophila, Nigella, Phlox, Salpiglossis, Scabiosa, Schizanthus, Sunflower, Sweet Peas, Lawn Grasses.

Sow in seed flats—Aquilaia, Asters, Begonia, Bellis, Canterbury Bells, Carnation, Coleus, Coreopsis, Daisy, Delphinium, Didiscus, Gaillardia, Gerbera, Geum, Heliotrope, Lobelia, Matricaria, Nemesis, Nicotiana, Pentstemon, Petunia, Salvia, Shasta Daisy, Statice, Stocks, Sweet William, Verbena, Viola, Wallflower, Vine Seeds.

**BULBS** of Caladiums, Cannas, Dahlias, Gladiolus, Tuberoses.

## APRIL

**VEGETABLES**—Seeds of Asparagus, Beets, Beans, Carrots, Casaba, Cabbage, Celery, Corn, Cucumber, Egg Plant, Kale, Lima Beans, Lettuce, Melons, Okra, Onions, Parsley, Parsnip, Peas, Peppers, Potatoes, Pumpkin, Radish, Salsify, Spinach (Summer), Squash, Tomatoes, Sweet Potato Plants.

**FLOWERS**—Sow seeds in open ground: Abronia, Ageratum, Alyssum, Amaranthus, Arctotis Grandis, Balsam, Candytuft, Calendula, Calliopsis, Celosia, Centaurea, Early Cosmos, Dahlia Seed, Gypsophila, Helichrysum, Hunnemannia, Kochia, Larkspur, Matthiola, Mignonette, African Marigold, Nigella, Nicotiana, Nasturtium, Genothera, Painted Daisy, Petunia, Portulaca, Phlox Drummondii, Rhodanthe, Salpiglossis, Scabiosa, Sunflower, Valeriana, Verbena, Wallflower, Zinnia, Vine Seeds, Lawn Grasses.

Sow in seed flats—Asters, Carnation, Delphinium, Didiscus, Geum, Gerbera, Lobelia, African Marigold, Nicotiana, Petunia, Primula, Salvia, Statice, Stocks, Verbena.

**BULBS** of Cannas, Caladiums, Dahlia, Gladiolus and Tuberoses.

## MAY

**VEGETABLES**—Seeds of Asparagus, Beets, Beans, Cabbage, Carrots, Casaba, Celery, Cucumber, Lima Beans, Melons, Okra, Onions, Parsley, Parsnip, Peppers, Pumpkin, Radish, Rhubarb, Salsify, Spinach (Summer), Squash, Tomato, Sweet Potato Plants.

**FLOWERS**—Sow seeds in open ground: Abronia, Ageratum, Alyssum, Amaranthus, Arctotis Grandis, Balsam, Candytuft, Calliopsis, Cosmos, Celosia, Centaurea, Gypsophila, Helichrysum, Hunnemannia, Larkspur, African Marigold, Mignonette, Nasturtium, Nigella, Nicotiana, Phlox Drummondii, Painted Daisy, Portulaca, Salpiglossis, Scabiosa, Stevia, Sunflower, Zinnia, Vine Seeds, Lawn Grasses.

Sow in seed flats—Asters, Carnation, Delphinium, Dianthus, Gaillardia, Geum, Gomphrena, Lobelia, Matricaria, Nicotiana, Petunia, Salvia, Schizanthus, Scabiosa, Statice, Stocks, Verbena.

**BULBS** of Canna, Dahlia, Gladiolus, Tuberoses.

## JUNE AND JULY

**VEGETABLES**—Seeds of Beets, Beans, Cabbage, Carrots, Casaba, Celery, Corn, Cucumber, Egg Plant, Melons, Okra, Parsley, Parsnip, Pepper Plants, Potatoes, Pumpkin, Radish, Spinach (Summer), Tomato.

**FLOWERS**—Sow seeds in the open ground: Calendula, Candytuft, Late Cosmos, Centaurea, Daisies, Gypsophila, African Marigold, Nasturtium, Phlox, Portulaca, Salpiglossis, Zinnia, Vine Seeds.

Sow in seed flats—Cineraria, Delphinium.

**BULBS** of Gladiolus.

## AUGUST

**VEGETABLES**—Beets, Beans, early varieties, Brussel Sprouts, Cabbage, Cauliflower, Carrots, Corn, Cucumber, Egg Plant, Endive, Kale, Kohl Rabi, Leek, Mustard, Onion, Parsley, Parsnip, Pepper, Potatoes, Radish, Salsify, Spinach (Summer), Tomatoes, Turnips.

**FLOWERS**—Sow seeds in open ground: Calendula, Centaurea, Early Cosmos, Gypsophila, Winter Flowering Sweet Peas, French Marigold, Nasturtium, Phlox, Salpiglossis, Zinnia.

Sow in seed flats—Aquilaia, Carnation, Canterbury Bells, Coreopsis, Cineraria, Delphinium, Digitalis, Forget-Me-Not, Gaillardia, Hollyhock, Pansy, Pentstemon, Perennial Poppies, Phlox, Shasta Daisy, Snapdragon, Stocks, Verbena, Viola, Wallflower.

**BULBS** of Calla, Easter Lily, Freesia, Gladiolus, Ornithogalum, Oxalis, Ranunculus.

## SEPTEMBER

**VEGETABLES**—Seeds of Beets, Beans, Brussel Sprouts, Cabbage, Carrots, Cauliflower, Cucumber, Egg Plant, Endive, Kale, Kohl Rabi, Leek, Lettuce, Mustard, Onions, Onion Sets, Parsley, Parsnip, Peas, Peppers, Potatoes, Radish, Salsify, Spinach (Winter), Squash, Tomatoes, Turnips.

**FLOWERS**—Sow seeds in open ground of Bartonla, Calendula, Centaurea, Early Cosmos, Dimorphotheca, Gypsophila, French Marigolds, Larkspur, Linum, Nasturtium, Nemesis, All Poppies, Salpiglossis, Winter Sweet Peas, Wildflower Mixture.

Sow in seed flats—Cineraria, Daisies, Delphinium, Digitalis, Forget-me-not, Gaillardia, Geum, Hollyhock, Pansy, Petunia, Pentstemon, Phlox, Pyrethrum, Scabiosa, Snapdragon, Stocks, Verbena, Viola, Wallflower.

**BULBS** of Allium, Anemone, Baby Glads, Calla, Easter Lily, Freesia, Gladiolus, Ornithogalum, Oxalis, Ranunculus, Spanish Iris, Watsonia.

## OCTOBER AND NOVEMBER

**VEGETABLES**—Seeds of Beets, Brussel Sprouts, Cabbage, Carrots, Cauliflower, Cress, Endive, Garlic, Kale, Kohl Rabi, Leek, Lettuce, Mustard, Onions, Onion Sets, Parsley, Parsnip, Peas, Radish, Salsify, Spinach, Turnips.

**FLOWERS**—Sow seeds in open ground: Acroclinium, Alyssum, Bartonla, Candytuft, Calendula, Centaurea, Clarkia, California Poppy, Dimorphotheca, French Marigolds, Godetia, Gypsophila, Larkspur, Linum, Lupin, Mignonette, Nemesis, Nemophila, Nigella, Painted Daisy, All Poppies, Ranunculus seed, Schizanthus, Winter Flowering Sweet Peas, Wild Flower Mixture, Lawn Grasses.

Sow in seed flats—Aquilaia, Canterbury Bells, Carnation, Coreopsis, Double Daisy, Delphinium, Digitalis, Forget-me-not, Gerbera, Gaillardia, Geum, Hollyhock, Pansy, Pentstemon, Petunia, Phlox, Pyrethrum, Scabiosa, Shasta Daisy, Snapdragon, Stocks, Sweet William, Verbena, Viola, Wallflower.

**BULBS** of Anemones, Amaryllis, Baby Glads, Callas, Crocus, Freesias, Hyacinths, Ixias, Narcissus, Native California Bulbs, Oxalis, Ranunculus, Spanish Iris, Sparaxis, Tulips, Watsonias, Easter Lillies, German Iris, Montbretias.

## DECEMBER

**VEGETABLES**—Seeds of Beets, Brussel Sprouts, Cabbage, Cauliflower, Carrots, Endive, Garlic, Kale, Kohl Rabi, Leek, Lettuce, Mustard, Onions, Onion Sets, Parsley, Parsnips, Peas, Potatoes, Radish, Salsify, Spinach (Winter), Turnips.

**FLOWERS**—Sow seeds in open ground: Acroclinium, Alyssum, Bartonla, Calendula, Candytuft, Calliopsis, Clarkia, Annual Chrysanthemums, California Poppy, Dianthus, Lupin, Mignonette, Nigella, Nemesis, Poppies, Standard Sweet Peas, Schizanthus, California Wild Flowers, and Lawn Grasses.

Sow in seed flats—Aquilaia, Larkspur, Pansy, Phlox, Snapdragon, Stocks.

**BULBS** of Amaryllis, Callas, Gladiolus, Hyacinths, Narcissus, Ranunculus, Tulips, Watsonia, Lillies.



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